Water Resources Data
Alaska
Water Year 1984

U.S. GEOLOGICAL SURVEY WATER-DATA REPORT AK-84-1
Prepared in cooperation with the State of Alaska
and with other agencies

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CALENDAR FOR WATER YEAR 1984

1983

OCTOBER

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1984

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U.S. DEPARTMENT OF THE INTERIOR
March 3, 1849

Water Resources Data Alaska
Water Year 1984

by B.B. Bigelow, R.D. Lamke, P.J. Still, J.L. Van Maanen, and J.E. Vaill

U.S. GEOLOGICAL SURVEY WATER-DATA REPORT AK-84-1
Prepared in cooperation with the State of Alaska
and with other agencies

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UNITED STATES DEPARTMENT OF THE INTERIOR

DONALD PAUL HODEL, Secretary

GEOLOGICAL SURVEY

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For additional information write to
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U. S. Geological Survey
4230 University Drive
Anchorage, AK 99508 - 4664

1985

PREFACE

This report was prepared by personnel of the Alaska District of the Water Resources Division of the U.S. Geological Survey, under the supervision of Philip A. Emery, District Chief and T. John Conomos, Regional Hydrologist, Western Region. It was done in cooperation with the State of Alaska and with other agencies.

This report is one of a series issued by state. General direction for the series is by Philip Cohen, Chief Hydrologist, U.S. Geological Survey, and James F. Daniel, Assistant Chief Hydrologist for Scientific Publications and Data Management.

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Water resources data for the 1984 water year for Alaska consists of records of stage, discharge, and water quality of streams; stage and water quality of lakes; and water levels and water quality in wells . This report contains discharge records for 112 gaging stations; water quality for 43 stations; and water levels for 31 observation wells. Also included are 64 crest-stage, and 59 water-quality partial-record stations. Additional water data were collected at various sites, not part of the systematic data collection program, and are published as miscellanious measurements of discharge, lake stage, or water quality. These data represent that part of the National Water Data System operated by the U.S.Geological Survey and cooperating State and Federal agencies in Alaska.

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[Letter after station name designates type of data: (d) discharge, (c) chemical, (m) microbiological, (t) water temperature, (s) sediment]

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[Letter after station name designates type of data: (d) discharge, (c) chemical, (m) microbiological, (t) water temperature, (s) sediment]

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INTRODUCTION

Water resources data for the 1984 water year for Alaska consist of records of stage, discharge, and water quality of streams; stage and water quality of lakes; and water levels and water quality of ground-water wells. This volume contains records for water discharge at 112 gaging stations; water quality at 43 gaging stations; and water levels for 31 observation wells. Also included are data for 64 crest-stage, and 59 water-quality partial-record stations and 37 lakes. Additional water data were collected at various sites not involved in the systematic data-collection program and are published as miscellaneous measurements and analyses. These data represent that part of the National Water Data System operated by the U.S. Geological Survey and cooperating State and Federal agencies in Alaska.

Records of discharge and stage of streams, stage of lakes, chemical quality, water temperatures, and suspended sediment were first published in U.S. Geological Survey water-supply papers. Through September 30, 1960, these data were published in seven water-supply papers entitled, "Quantity and Quality of Surface Waters of Alaska" (through 1950, 1951-53, 1954-56, 1957, 1958, 1959, 1960). Since 1960, streamflow records and related data were published in a five-year series of water-supply papers for 1961-65 and 1966-70 entitled, "Surface Water Supply of the United States." Water-quality records were published in a water-supply paper entitled "Quality of Surface Waters of Alaska, 1961-63" and after then until 1970 in an annual series of water-supply papers entitled, "Quality of Surface Waters of the United States." Records of ground-water levels were published from 1949 to 1974 in a series of water-supply papers entitled, "Ground-Water Levels in the United States." Water-supply papers may be consulted in the libraries of the principal cities in the United States or may be purchased from Branch of Distribution, U.S. Geological Survey, 604 South Pickett Street, Alexandria, Virginia 22304.

For water years 1961 through 1970, streamflow data were released by the Geological Survey in annual reports on a State-boundary basis. Water-quality records for water years 1964 through 1970 were similarly released either in separate reports or in conjunction with streamflow records.

Beginning with the 1971 water year, water data for streamflow, water quality, and ground water are published in official Survey reports on a State-boundary basis. These official Survey reports carry an identification number consisting of the two-letter State abbreviation, the last two digits of the water year, and the volume number. For example, this report is identified as "U.S. Geological Survey Water-Data Report AK-84-1." These water-data reports are for sale, in paper copy or in microfiche, by the National Technical Information Service, U.S. Department of Commerce, Springfield, VA 22161.

Additional information, including current prices, for ordering specific reports may be obtained from the district chief at the address given on the back of the title page or by telephone (907) 271-4138.

COOPERATION

The U.S. Geological Survey and organizations of the State of Alaska have had cooperative agreements since 1958 for the systematic collection of streamflow records, water-quality records, and ground-water levels. Organizations that assisted in collecting data through cooperative agreement with the Survey are:

- Alaska Department of Natural Resources
- Alaska Power Authority
- Alaska Department of Transportation and Public Facilities in cooperation with the Federal Highway Administration, U.S. Department of Transportation
- Alaska Department of Fish and Game
- Municipality of Anchorage
- Fairbanks North Star Borough
- City and Borough of Juneau
- Kenai Peninsula Borough
- Matanuska-Susitna Borough
- City and Borough of Sitka
- City of Wasilla
- City of Sandpoint

Assistance in the form of funds or services was given by the following federal agencies for information published in this report: Corps of Engineers, U.S. Army, for 17 gaging stations and 1 water-quality station; Forest Service, U.S. Department of Agriculture, for 8 gaging stations and 7 water-quality stations.

Organizations that supplied data are acknowledged in station descriptions.

ACKNOWLEDGMENTS

This report is the culmination of a concerted effort by many dedicated employees of the Alaska District who collected -- often under adverse conditions -- compiled, analyzed, and verified the data. In addition to the authors, who had primary responsibility for assuring that the information contained herein is accurate, complete, and adheres to Geological Survey policy and established guidelines, those who contributed significantly to the preparation of the report -- organization of the data, typing, editing, and assembly of the manuscript -- include Karen V. Jones, Penny J. Ebling, and Robert F. Gilmore.

HYDROLOGIC CONDITIONS

Streamflow in Alaska for the 1984 water year was generally in the normal range. Flow at about 14 percent of the long-term gaging stations (those with 10 or more years of record) was deficient (in the lowest 25 percent for the period of record). Yearly runoff was the lowest in 19 years of record at the station on Mendenhall River near Juneau and it was the second lowest in 21 years of record at the Skagway River station at Skagway. Flow was excessive (in the highest 25 percent for the period of record) at 10 percent of the long-term stations. The highest annual flow during the period of record occurred at Caribou Creek near Chatanika (15 years), and yearly flow was also excessive at Chena River near Two Rivers (17 years) and Tanana River at Nenana (22 years).

Streams in southeastern Alaska generally had below normal or deficient flows during the first quarter of the water year because precipitation was half of the normal amount. Flows during December were the lowest or second lowest of record at most stream-gaging stations in Southeast Alaska; the month had one fifth of its normal precipitation. In the second quarter, flow at these gaging stations was above normal or excessive, precipitation was 1.5 times the normal and the average temperatures were 6°F. higher than usual; the highest February flows recorded occurred at many stations. Many stations had deficient flows during May and September because monthly precipitation was only about two-thirds of normal.

In South-central Alaska, streams with headwaters in the Alaska Range had above normal or excessive flows from October through March because of winter temperatures higher than normal. Small streams on the Kenai Peninsula, with low-elevation drainage basins, had excessive or above normal flows from November through January, as a result of a late November storm. South-central streamflows during the remainder of the water year were generally in the normal range; except that, almost half of the September station records show deficient flows because of much below normal monthly precipitation.

The mild winter in the Alaska Range also affected Southwest Alaska; streamflows were above normal or excessive. For example, discharges were the highest or second highest of record from December through April at the Newhalen River gaging station near Iliamna. Most southwestern streams had below normal or deficient flows through the summer months of 1984.

Tanana River basin streamflows were above normal or excessive through the fall and winter months because of generally warmer temperatures than usual. Many of these streams had occasional months during the summer with excessive flows; streams in the Fairbanks area had larger than normal flows in June and July. However, the Yukon River at Eagle had many months or below normal of deficient flows throughout the 1984 water year. Yukon River flows throughout the state were generally below average except for near (or above) average flows in the upper reaches during July and near the mouth in August.

Streamflow trends at the few long-term stations in northern Alaska were not very evident except those for excessive October flows in the streams near Nome and for excessive August flows on the Arctic Slope.

The most significant floods were those of November 29 and 30, 1983, that extended from the lower Kenai Peninsula to Kodiak Island. The greatest instantaneous peaks during their period of peak flow record occurred at Barbara Creek near Seldovia (12 years) and Anchor River near Anchor Point (14 years). An instantaneous peak of about 11,000 ft³/s occurred at the discontinued gaging station on Anchor River at Anchor Point (the highest previous peak was 3,030 ft³/s during the 1954-66 period of record). These peaks were caused by rain falling on snow at lower elevations.

The greatest annual maximum during the 12 years of record at the gaging station, Tanana River at Fairbanks, occurred June 17, 1984; although it was much lower than the 1967 flood discharge. Record peak discharges also occurred on June 16 at two Yukon basin small-stream stations, Boulder Creek near Central (21 years) and Caribou Creek near Chatanika (15 years). An outstanding flood occurred August 19 at the outlet of Portage Lake near Whittier (in South-central Alaska); discharge was 12,500 ft³/s from a 39.7 square mile drainage area.

Monthly and annual mean discharge for 1984 is compared in figure 3 with median monthly and annual discharge for the period of record at six representative gaging stations throughout the state.

DEFENITION OF TERMS

Terms related to streamflow, water-quality, and other hydrologic data, as used in this report, are defined as follows. See also the table for converting English Units to International System of units (SI) on the inside of the back cover.

Acre-foot (AC-FT, acre-ft) is the quantity of water required to cover 1 acre to a depth of 1 foot and is equivalent to 43,560 cubic feet or about 326,000 gallons or 1,233 cubic meters.

Aquifer is a geologic formation, group of formations, or part of a formation that contains sufficient saturated permeable material to yield significant quantities of water to wells and springs.

Artesian means confined and is used to describe a well in which the water level stands above the top of the aquifer, tapped by the well. A flowing artesian well is one in which the water level is above the land surface.

Bacteria are microscopic unicellular organisms without a distinct nucleus, typically spherical, rodlike, or spiral and threadlike in shape often clumped into colonies. Some bacteria cause disease, others perform an essential role in nature in the recycling of materials; for example, by decomposing organic matter into a form available for reuse by plants.

Total coliform bacteria are a particular group of bacteria that are used as indicators of possible sewage pollution. They are characterized as aerobic or facultative anaerobic, gram-negative, nonspore-forming, rod-shaped bacteria which ferment lactose with gas formation within 48 hours at 35°C. In the laboratory these bacteria are defined as all the organisms which produce colonies with a golden-green metallic sheen between 22 and within 24 hours when incubated at 35°C ± 0.5°C on M-Endo medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 milliliters (mL) of sample.

Fecal coliform bacteria are bacteria that are present in the intestine or feces of warm-blooded animals. They are often used as indicators of the sanitary quality of water. In the laboratory they are defined as all organisms which produce blue colonies within 24 hours when incubated at 44.5°C ± 0.2°C on M-FC medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Fecal streptococcal bacteria are bacteria found also in the intestine of warmblooded animals. Their presence in water is considered to verify fecal pollution. They are characterized as gram-positive, cocci bacteria which are capable of growth in brain-heart infusion broth. In the laboratory they are defined as all the organisms which produce red or pink colonies between 46 and 48 hours at 35°C ± 1.0°C on KF Streptococcus agar (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Bed material is the unconsolidated material of which a streambed, lake, pond, reservoir, or estuary bottom is composed.

Bottom material: See Bed material.

Recoverable from bottom material is the amount of a given constituent that is in solution after a representative sample of bottom material has been digested by a method (usually using an acid or mixture of acids) that results in dissolution of only readily soluble substances. Complete dissolution of all bottom material is not achieved by the digestion treatment and thus the determination represents less than the total amount (that is, less than 95 percent) of the constituent in the sample. To achieve comparability of analytical data, equivalent digestion procedures would be required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

Total in bottom material is the total amount of a given constituent in a representative sample of bottom material. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent determined. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to judge when the results should be reported as "total in bottom material".

Cells/volume refers to the number of cells of any organism which is counted by using a microscope and grid or counting cell. Many planktonic organisms are multicelled and are counted according to the number of contained cells per sample, usually milliliters or liters (L).

Cfs-day is the volume of water represented by a flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, approximately 1.9835 acre-feet, or about 646,000 gallons or 2,447 cubic meters.

Chlorophyll refers to the green pigments of plants. Chlorophyll _ and _ are the two most common green pigments in plants.

Color unit is produced by one milligram per liter of platinum in the form of the chloroplatinate ion. Color is expressed in units of the platinum-cobalt scale.

Control designates a feature downstream from the gage that determines the stage-discharge relation at the gage. This feature may be a natural constriction of the channel, an artificial structure, or a uniform cross section over a long reach of the channel.

Cubic feet per second per square mile (CFSM) is the average number of cubic feet of water flowing per second from each square mile of area drained, assuming that the runoff is distributed uniformly in time and area.

Cubic foot per second (FT^3/S, or ft^3/s) is the rate of discharge representing a volume of 1 cubic foot passing a given point during 1 second and is equivalent to approximately 7.48 gallons per second or 448.8 gallons per minute or 0.02832 cubic meters per second.

Discharge is the volume of water (or more broadly, volume of fluid plus suspended sediment) that passes a given point within a given period of time.

Mean discharge (MEAN) is the arithmetic mean of individual daily mean discharges during a specific period.

Instantaneous discharge is the discharge at a particular instant of time.

Dissolved refers to that material in a representative water sample which passes through a 0.45 micrometer membrane filter. This is a convenient operational definition used by Federal agencies that collect water data. Determinations of "dissolved" constituents are made of subsamples of the filtrate.

Drainage area of a stream at a specific location is that area, measured in a horizontal plane, enclosed by a topographic divide from which direct surface runoff from precipitation normally drains by gravity into the stream above the specified point. Figures of drainage area given herein include all closed basins, or noncontributing areas, within the area unless otherwise noted.

Gage height (G.H.) is the water-surface elevation referred to some arbitrary gage datum. Gage height is often used interchangeably with the general term "stage," although gage height is more appropriate when used with a reading on a gage.

Gaging station is a particular site on a stream or lake where systematic observations of hydrologic data are obtained.

Hardness of water is a physical-chemical characteristic that is commonly recognized by the increased quantity of soap required to produce lather. It is attributable to the presence of alkaline earths (principally calcium and magnesium) and is expressed as equivalent calcium carbonate (CaCO3).

Hydrologic unit is a geographic area representing part or all of a surface drainage basin or distinct hydrologic feature as delineated by the Office of Water Data Coordination on the State Hydrologic Unit Maps; each hydrologic unit is identified by an 8-digit number.

Micrograms per liter (UG/L, ug/L) is a unit expressing the concentration of chemical constituents in solution as mass (micrograms) of solute per unit volume (liter) of water. One thousand micrograms per liter is equivalent to one milligram per liter.

Milligrams per liter (MG/L, mg/L) is a unit for expressing the concentration of chemical constituents in solution. Milligrams per liter represents the mass of solute per unit volume (liter) of water. Concentration of suspended sediment also is expressed in mg/L, and is based on the mass of sediment per liter of water-sediment mixture.

National Geodetic Vertical Datum of 1929 (NGVD) is a geodetic datum derived from a general adjustment of the first order level nets of both the United States and Canada. It was formerly called "Sea Level Datum of 1929" or "mean sea level" in this series of reports. Although the datum was derived from the average sea level over a period of many years at 26 tide stations along the Atlantic, Gulf of Mexico, and Pacific Coasts, it does not necessarily represent local mean sea level at any particular place.

Partial-record station is a particular site where limited streamflow or water-quality data are collected systematically over a period of years for use in hydrologic analyses.

Particle size is the diameter, in millimeters (mm), of suspended sediment or bed material determined by either sieve or sedimentation methods. Sedimentation methods (pipet, bottom-withdrawal tube, visual accumulation tube) determine fall diameter of particles in either distilled water (chemically dispersed) or in native water (the river water at the time and point of sampling).

Particle-size classification used in this report agrees with recommendations made by the American Geophysical Union Subcommittee on Sediment Terminology. The classification is as follows:

Classification	Size (mm)	Method of analysis
Clay..........	0.00024 - 0.004	Sedimentation.
Silt..........	.004 - .062	Sedimentation.
Sand..........	.062 - 2.0	Sedimentation or sieve.
Gravel........	2.0 - 64.0	Sieve.

The particle-size distribution given in this report are not necessarily representative of all particles in transport in the stream. Most of the organic material is removed and the sample is subjected to mechanical and chemical dispersion before analysis in distilled water. Chemical dispersion is not used for native-water analysis.

Picocuri (PC, pCi) is one trillionth (1 x 1012) of the amount of radioactivity represented by a curie (Ci). A curie is the amount of radioactivity that yields 3.7 x 1010 radioactive disintegrations per second. A picocurie yields 2.22 dpm (disintegrations per minute).

Polychlorinated biphenyls (PCBs) are industrial chemicals that are mixtures of chlorinated biphenyl compounds having various percentages of chlorine. They are similar in structure to organochlorine insecticides.

Runoff in inches (IN. in) shows the depth to which the drainage area would be covered if all the runoff for a given time period were uniformly distributed on it.

Sediment is solid material that originates mostly from disintegrated rocks and is transported by, suspended in, or deposited from water; it includes chemical and biochemical precipitates and decomposed organic material such as humus. The quantity, characteristics, and cause of the occurrence of sediment in streams are influenced by environmental factors. Some major factors are degree of slope, length of slope, soil characteristics, land usage, and quantity and intensity of precipitation.

Suspended-sediment is the sediment that at any given time is maintained in suspension by the upward components of turbulent currents or that exists in suspension as a colloid.

Suspended-sediment concentration is the velocity-weighted concentration of suspended sediment in the sampled zone (from the water surface to a point approximately 0.3 ft above the bed) expressed as milligrams of dry sediment per liter of water-sediment mixture (mg/L).

Suspended-sediment discharge (tons/day) is the rate at which dry weight of sediment passes a section of a stream or is the quantity of sediment, as measured by dry weight or volume, that is discharged in a given time. It is computed by multiplying discharge times mg/L times 0.0027.

Suspended-sediment load is quantity of suspended sediment passing a section in a specified period.

Total sediment discharge (tons/day) is the sum of the suspended-sediment discharge and the bedload discharge. It is the total quantity of sediment, as measured by dry weight or volume, that passes a section during a given time.

Mean concentration is the time-weighted concentration of suspended sediment passing a stream section during a 24-hour day.

Solute is any substance derived from the atmosphere, vegetation, soil, or rocks that is dissolved in water.

Specific conductance is a measure of the ability of a water to conduct an electrical current and is expressed in micromhos per centimeter at 25°C. Specific conductance is related to the type and concentration of ions in solution and can be used for approximating the dissolved-solids content in the water. Commonly, the concentration of dissolved solids (in milligrams per liter) is about 65 percent of the specific conductance (in micromhos). This relation is not constant from stream to stream, and it may vary in the same source with changes in the composition of the water.

Stage-discharge relation is the relation between gage height (stage) and volume of water per unit of time, flowing in a channel.

Stable Isotope ratios (per MILL/MIL) a unit expressing the ratio of the abundance of two radioactive isotopes. Isotope ratios are used in hydrologic studies to determine the age or source of specific waters, to evaluate mixing of different waters, as an aid in determining reaction rates, and other chemical or hydrologic processes.

Streamflow is the discharge that occurs in a natural channel. Although the term "discharge" can be applied to the flow of a canal, the word "streamflow" uniquely describes the discharge in a surface stream course. The term "streamflow" is more general than "runoff" as streamflow may be applied to discharge whether or not it is affected by diversion or regulation.

Suspended, recoverable is the amount of a given constituent that is in solution after the part of a representative water-suspended sediment sample that is retained on a 0.45 micrometer membrane filter has been digested by a method (usually using a dilute acid solution) that results in dissolution of only readily soluble substances. Complete dissolution of all the particulate matter is not achieved by the digestion treatment and thus the determination represents something less than the "total" amount (that is, less than 95 percent) of the constituent present in the sample. To achieve comparability of analytical data, equivalent digestion procedures would be required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

Determinations of "suspended, recoverable" constituents are made either by analyzing portions of the material collected on the filter or, more commonly, by difference, based on determinations of (1) *dissolved* and (2) *total recoverable* concentrations of the constituent.

Suspended, total is the total amount of a given constituent in the part of a representative water-suspended sediment sample that is retained on a 0.45 micrometer membrane filter. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent determined. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to determine when the results should be reported as "suspended, total".

Determinations of "suspended, total" constituents are made either by analyzing portions of the material collected on the filter or, more commonly, by difference, based on determinations of (1) *dissolved* and (2) *total* concentrations of the constituent.

Tons per acre-foot indicates the dry weight of dissolved solids in 1 acre-foot of water. It is computed by multiplying the concentration in milligrams per liter by 0.00136.

Tons per day is the quantity of a substance in solution or suspension that passes a stream section during a 24-hour day.

Total, recoverable is the amount of a given constituent that is in solution after a representative water-suspended sediment sample has been digested by a method (usually using a dilute acid solution) that results in dissolution of only readily soluble substances. Complete dissolution of all particulate matter is not achieved by the digestion treatment, and thus the determination represents something less than the "total" amount (that is, less than 95 percent) of the constituent present in the dissolved and suspended phases of the sample. To achieve comparability of analytical data, equivalent digestion procedures would be required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

Total is the total amount of a given constituent in a representative water-suspended sediment sample, regardless of the constituent's physical or chemical form. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent present in both the dissolved and suspended phases of the sample. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to judge when the results should be reported as "total". (Note that the word "total" does double duty here, indicating both that the sample consists of a water-suspended sediment mixture and that the analytical method determines all of the constituent in the sample.)

WSP is used as an abbreviation for "Water-Supply Paper" in references to previously published reports.

DOWNSTREAM ORDER AND STATION NUMBERS

Since October 1, 1950, the order of listing hydrologic-station records in Survey reports is in a downstream direction along the main stream. All stations on a tributary entering upstream from a main-stream station are listed before that station. A station on a tributary that enters between two main-stream stations is listed between them. A similar order is followed in listing stations on first rank, second rank, and other ranks of tributaries. The rank of any tributary on which a station is situated with respect to the stream to which it is immediately tributary is indicated by an indention in a list of stations in the front of the report. Each indention represents one rank. This downstream order and system of indention show which stations are on tributaries between any two stations and the rank of the tributary on which each station is situated.

As an added means of identification, each hydrologic station and partial-record station has been assigned a station number. These are in the same downstream order used in this report. In assigning station numbers, no distinction is made between partial-record stations and other stations; therefore, the station number for a partial-record station indicates downstream-order position in a list made up of both types of stations. Water-quality stations located at or near gaging stations or partial-record stations have the same number as the gaging or partial-record station. Gaps are left in the series of numbers to allow for new stations that may be established; hence, the numbers are not consecutive. The complete 8-digit number for each station, such as 15303600, which appears just to the left of the station name, includes the 2-digit part number "15" plus the 6-digit downstream order number "303600."

NUMBERING SYSTEM FOR WELLS AND MISCELLANEOUS SITES

The 8-digit downstream order station numbers are not assigned to wells and miscellaneous sites where only random water-quality samples or discharge measurements are taken.

The well and miscellaneous site numbering system of the U.S. Geological Survey is based on the grid system of latitude and longitude. The system provides the geographic location of the well or miscellaneous site and a unique number for each site. The number consists of 15 digits. The first 6 digits denote the degrees, minutes, and seconds of latitude, the next 7 digits denote degrees, minutes, and seconds of longitude, and the last 2 digits (assigned sequentially) identify the wells or other sites within a 1-second grid. See figure 1 below.

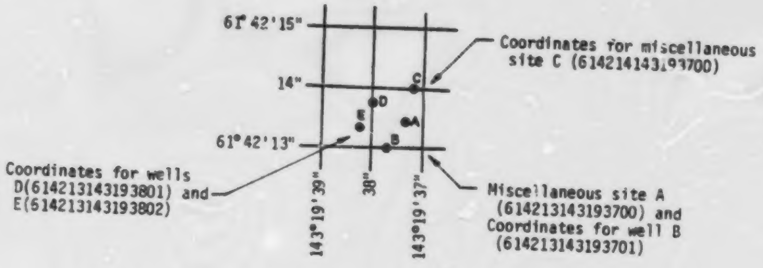
61°42'15"
14"
61°42'13"
143°19'39"
38"
143°19'37"
C
D
E
A
B
Coordinates for miscellaneous site C (614214143193700)
Coordinates for wells D(614213143193801) and E(614213143193802)
Miscellaneous site A (614213143193700) and Coordinates for well B (614213143193701)

Figure 1. – System for numbering wells and miscellaneous sites (latitude and longitude).

SPECIAL NETWORKS AND PROGRAMS

Hydrologic bench-mark station is one that provides hydrologic data for a basin in which the hydrologic regimen will likely be governed solely by natural conditions. Data collected at a bench-mark station may be used to separate effects of natural from manmade changes in other basins which have been developed and in which the physiography, climate, and geology are similar to those in the undeveloped bench-mark basin.

National stream-quality accounting network (NASQAN) is a data collection network designed by the U.S. Geological Survey to meet many of the information demands of agencies or groups involved in national or regional water-quality planning and management. Both accounting and broad-scale monitoring objectives have been incorporated into the network design. Areal configuration of the network is based on river-basin accounting units (identified by 8-digit hydrologic-unit numbers) designated by the Office of Water Data Coordination in consultation with the Water Resources Council. Primary objectives of the network are (1) to depict areal variability of streamflow and water-quality conditions nationwide on a year-by-year basis and (2) to detect and assess long-term changes in streamflow and stream quality.

Radiochemical program is a network of regularly sampled water-quality stations where samples are collected to be analyzed for radioisotopes. The streams that are sampled represent major drainage basins.

EXPLANATION OF STAGE AND WATER-DISCHARGE RECORDS

Collection and computation of data

The base data collected at gaging stations consist of records of stage and measurements of discharge of streams and stage of lakes. In addition, observations of factors affecting the stage-discharge relation, weather records, and other information are used to supplement base data in determining the daily flow. Records of stage are obtained from direct readings on a nonrecording gage or from a water-stage recorder that gives either a continuous graph of the fluctuations or a tape punched at selected time intervals. Measurements of discharge are made with a current meter, using the general methods adopted by the Geological Survey. These methods are described in standard textbooks, in Water-Supply Paper 888, and in U.S. Geological Survey Techniques of Water Resources Investigations, book 3, chapter A6.

For stream-gaging stations, rating tables giving the discharge for any stage are prepared from stage-discharge relation curves. If extensions to the rating curves are necessary to express discharge greater than measured, they are made on the basis of indirect measurements of peak discharge (such as slope-area or contracted-opening measurements, computation of flow over dams or weirs), step-backwater techniques, velocity-area studies, and logarithmic plotting. The daily mean discharge is computed from gage heights and rating tables, then the monthly and yearly mean discharge are computed from the daily figures. If the stage-discharge relation is subject to change because of frequent or continual change in the physical features that form the control, the daily mean discharge is computed by the shifting-control method, in which correction factors based on individual discharge measurements and notes by engineers and observers are used in applying the gage heights to the rating tables. If the stage-discharge relation for a station is temporarily changed by the presence of aquatic growth or debris on the control, the daily mean discharge is computed by what is basically the shifting-control method.

At most stream-gaging stations in Alaska the stage-discharge relation is affected by ice in the winter, and it becomes impossible to compute the discharge in the usual manner. Discharge for periods of ice effect is computed or estimated on the basis of the available gage-height record and occasional winter discharge measurements. Consideration is given to the available information on temperature and precipitation, notes by gage observers and hydrologists, and comparable records of discharge for other stations in the same or nearby basins.

For some gaging stations there are periods when no gage-height record is obtained or the recorded gage height is so faulty that it cannot be used to compute daily discharge. This happens when the recorder is stopped for the winter or otherwise fails to operate properly, intakes are plugged, the float is frozen in the well, or for various other reasons. For such periods the daily discharges are estimated on the basis of recorded range in stage, prior and subsequent records, discharge measurements, weather records, and comparison with records for other stations in the same or nearby basins.

The data in this report generally comprise a description of the station and tabulations of daily and monthly figures. For gaging stations on streams a table showing the daily discharge and monthly and yearly discharge is given. Tables of daily mean gage heights are included for some streamflow stations. Records are published for the water year, which begins on October 1 and ends on September 30.

The description of the gaging stations gives the location, drainage area, period of record, notations of revisions of previously published records, type and history of gages, general remarks, average discharge, and extremes of discharge. The location of the gaging station and the drainage area are obtained from the most accurate maps available. Periods for which there are published records for the present station or for stations generally equivalent to the present one are given under "PERIOD OF RECORD."

Previously published streamflow records of some stations have been found to be in error on the basis of data or information later obtained. Revisions of such records are usually published along with the current records in one of the annual or compilation reports. In order to make it easier to find such revised records, a paragraph headed "REVISED RECORDS" has been added to the description of all stations for which revised records have been published. Listed therein are all the reports in which revisions have been published, each followed by the water years for which figures are revised in that report. In listing the water years only one number is given; for instance, 1965 stands for the water year October 1, 1964, to September 30, 1965. If no daily, monthly, or annual figures of discharge are affected by the revision, the fact is brought out by notations after the year dates as follows: "(M)" means that only the instantaneous maximum discharge was revised; "(m)" that only the instantaneous minimum was revised; and "(P)" that only peak discharges were revised. If the drainage area has been revised, the report in which the revised figure was first published is given. It should be noted that for all stations for which cubic feet per second per square mile and runoff in inches are published, a revision of the drainage area necessitates corresponding revision of all figures based on the drainage area. Revised figures of cubic feet per second per square mile and runoff in inches resulting from a revision of the drainage area only are usually not published in the annual series of reports.

The type of gage currently in use, the datum of the present gage referred to National Geodetic Vertical Datum, and a condensed history of the types, locations, and datums of previous gages used during the period of record are given under "GAGE." National Geodetic Vertical Datum is explained in "DEFINITION OF TERMS" on page 5.

Information pertaining to the accuracy of the discharge records and to conditions which affect the natural flow of the gaging station is given under "REMARKS."

The average discharge for the number of years indicated is given under "AVERAGE DISCHARGE"; It is not given for stations having fewer than 5 complete years of record. Under "EXTREMES" are given first, the extremes for the period of record, second, information available outside the period of record, and last, those for the current year. Unless otherwise qualified, the maximum discharge is the instantaneous maximum corresponding to the crest stage obtained by use of a water-stage recorder (graphic or digital), a crest-stage gage, or a nonrecording gage read at the time of the crest. If the maximum gage height did not occur on the same day as the maximum discharge, it is given separately. Similarly, the minimum is the instantaneous minimum unless otherwise qualified. For some stations peak discharges are listed with EXTREMES FOR THE CURRENT YEAR; if they are, all independent peaks, including the maximum for the year, above the selected base with the time of occurrence and corresponding gage heights are published in tabular format. The base discharge, which is given in the table heading, is selected so that an average of about three peaks a year will be presented. Peak discharges are not published for any canals, ditches, drains, or for any stream for which the peaks are subject to substantial control by man. Time of day is expressed in 24-hour local standard time; for example, 12:30 a.m. is 0030, 1:30 p.m. is 1330. The minimums for these stations are published in a separate paragraph following the table of peaks.

The daily table for stream-gaging stations gives the mean discharge for each day and is by monthly and yearly summaries. In the monthly summary below the daily table, the line headed "TOTAL" gives the sum of the daily figures. The line headed "MEAN" gives the average flow in cubic feet per second during the month. The lines headed "MAX" and "MIN" give the maximum and minimum daily discharges, respectively, for the month. Discharge for the month also may be expressed in cubic feet per second per square mile (line headed "CFSM"), or in inches (line headed "IN"), or in acre-feet (line headed "AC-FT"). Figures for cubic feet per second per square mile and runoff in inches are omitted if there is extensive regulation or diversion, if the drainage area includes large noncontributing areas, or if most of the flow is from a spring. In the yearly summary below the monthly summary, the figures shown are the appropriate daily discharges for the calendar and water years.

Footnotes to the table of daily discharges are introduced by the word "NOTE." Footnotes are used to indicate periods for which the discharge is computed or estimated by special methods because of no gage-height record, backwater from various sources, or other unusual conditions. Periods of no gage-height record are indicated if the period is continuous for a month or more or includes the maximum discharge for the year. Periods of backwater from an unusual source of indefinite stage-discharge relation, or of any other unusual condition at the gage site are indicated only if they are a month or more in length and the accuracy of the records is affected. Days on which the stage-discharge relation is affected by ice are not indicated. The methods used in computing discharge for various unusual conditions have been explained in preceding paragraphs.

Data collected at partial-record stations follow the information for continuous record sites. Data for partial-record discharge stations are presented in two tables. The first is a table of discharge measurements at low-flow partial-record stations, and the second is a table of annual maximum stage and discharge at crest-stage stations. The tables of partial-record stations are followed by a listing of discharge measurements made at sites other than continuous-record or partial-record stations. Occasionally, a series of discharge measurements are made within a short time period to investigate the seepage gains or losses along a reach of a stream or to determine the low-flow characteristics of an area. Such measurements are also given in special tables following the tables of partial-record stations. Lake-level data collected at miscellaneous selected lakes are tabulated also.

Accuracy of field data and computed results

The accuracy of streamflow data depends primarily on (1) the stability of the stage-discharge relation or, if the control is unstable, the frequency of discharge measurements, and (2) the accuracy of observations of stage, measurements of discharge, and interpretations of records.

The station description under "REMARKS" states the degree of accuracy of the records. "Excellent" means that about 95 percent of the daily discharges are within 5 percent; "good" within 10 percent; and "fair" within 15 percent. "Poor" means that daily discharges have less than "fair" accuracy.

Figures of daily mean discharge in this report are shown to the nearest hundredth of a cubic foot per second for discharges of less than 1 ft³/s; to tenths between 1.0 and 10 ft³/s; to whole numbers between 10 and 1,000 ft³/s; and to 3 significant figures above 1,000 ft³/s. The number of significant figures used is based solely on the magnitude of the figure. The same rounding rules apply to discharge figures listed for partial-record stations.

Discharge at many stations, as indicated by the monthly mean, may not reflect natural runoff due to the effects of diversion, flow from springs, or to other factors. For such stations, figures of cubic feet per second per square mile and of runoff in inches are not published unless satisfactory adjustments can be made for diversions or for other changes incident to use and control.

Other data available

Information of a more detailed nature than that published for most of the gaging stations such as observations of water temperatures, discharge measurements, gage-height records, and rating tables, is filed in the subdistrict offices at Anchorage, Fairbanks, and Juneau for their areas of responsibility. Also most gaging-station records are available in computer-usable form and many statistical analyses have been made.

Information on the availability of unpublished data or statistical analyses may be obtained from the district office.

Access to WATSTORE Data

The National WATer Data STOrage and REtrieval System (WATSTORE) was established for handling water data collected through the activities of the U.S. Geological Survey and to provide for more effective and efficient means of releasing the data to the public. The system is operated and maintained on the central computer facilities of the Survey at its National Center in Reston, Virginia.

WATSTORE can provide a variety of useful products ranging from simple data tables to complex statistical analyses. A minimal fee, plus the actual computer cost incurred in producing a desired product, is charged to the requester. Information about the availability of specific types of data, the acquisition of data or products, and user charges can be obtained locally from each of the Water Resources Division's district offices (see address given on the back of the title page).

General inquiries about WATSTORE may be directed to:

Chief Hydrologist
U.S. Geological Survey
437 National Center
Reston, Virginia 22092

EXPLANATION OF WATER QULAITY RECORDS

Collection and examination of data

Surface-water samples for analyses usually are collected at or near gaging stations. The quality-of-water records are given immediately following the discharge records at these stations.

The descriptive heading for water-quality records gives the period of record for all water-quality data; the period of daily record for parameters that are measured on a daily basis (specific conductance, pH, dissolved oxygen, water temperature, sediment discharge, etc.); extremes for the period of daily record; extremes for the current year; and general remarks.

For ground-water records, no descriptive statements are given; however, the well number, depth of well, date of sampling and/or other pertinent data are given in the table containing the chemical analyses of the ground water.

Water analysis

Most methods for collecting and analyzing water samples are described in the U.S. Geological Survey Techniques of Water-Resources Investigations listed on a following page.

One sample can define adequately the water quality at a given time if the mixture of solutes throughout the stream cross section is homogeneous. However, the concentration of solutes at different locations in the cross section may vary widely with different rates of water discharge, depending on the source of material and the turbulence and mixing of the stream. Some streams must be sampled through several vertical sections to obtain a representative sample needed for an accurate mean concentration and for use in calculating load.

Chemical-quality data published in this report are considered to be the most representative values available for the stations listed. The values reported represent water-quality conditions at the time of sampling as much as possible, consistent with available sampling techniques and methods of analysis. In the rare case where an apparent inconsistency exists between a reported pH value and the relative abundance of carbon dioxide species (carbonate and bicarbonate), the inconsistency is the result of a slight uptake of carbon dioxide from the air by the sample between measurement of pH in the field and determination of carbonate and bicarbonate in the laboratory.

Water temperature

Water temperatures are measured at most of the water-quality stations. In addition, water temperatures are taken at time of discharge measurements for water-discharge stations. Large streams have a small diel temperature change; shallow streams may have a daily range of several degrees and may follow closely the changes in air temperature. Some streams may be affected by waste-heat discharges.

At stations where recording instruments are used, maximum and minimum temperatures for each day are published.

Sediment

Suspended-sediment concentrations are determined from samples collected by using depth-integrating samplers. Samples usually are obtained at several verticals in the cross section, or a single sample may be obtained at a fixed point and a coefficient applied to determine the mean concentration in the cross sections.

During periods of rapidly changing flow or rapidly changing concentration, samples may have been collected more frequently (twice daily or, in some instances, hourly). The published sediment discharges for days of rapidly changing flow or concentration were computed by the subdivided day method (time-discharge weighted average). Therefore, for those days when the published sediment discharge value differs from the value computed as the product of discharge times mean concentration times 0.0027, the reader can assume that the sediment discharge for that day was computed by the subdivided day method. For periods when no samples were collected, daily loads of suspended sediment were estimated on the basis of water discharge, sediment concentrations observed immediately before and after the periods, and suspended-sediment loads for other periods of similar discharge.

At other stations, suspended-sediment samples were collected periodically at many verticals in the stream cross section. Although data collected periodically may represent conditions only at the time of observations, such data are useful in establishing seasonal relations between quality and streamflow in predicting long-term sediment-discharge characteristics of the stream.

In addition to the records of the quantities of suspended sediment, records of the periodic measurements of the particle-size distribution of the suspended sediment and bed material are included.

EXPLANATION OF GROUND-WATER LEVEL RECORDS

Collection of the data

Only ground-water level data from a basic network of observation wells are published herein. This basic network consists of observation wells located in the most important aquifers, and therefore the most significant data are obtained from the fewest wells. (See figure 4.)

Each well is identified by means of (1) a 15-digit number that is based on latitude and longitude and (2) a local number that is provided for local needs. (See figure 1.)

The local number used herein is partly based on the rectangular subdivision of public lands. The first two letters indicate the principal meridian and the quadrant formed by the intersection of the base line and the principal meridian. The first three digits indicate the township in which the well is located, the next three digits the range, and the following two digits the section. Letters following the section number indicate the quarter section, the quarter-quarter section, and so forth to the fourth order subdivision. Each of these subdivisions is lettered counter-clockwise, from the northeast corner. Each well within the smallest order of subdivision is then given a sequential number. Finally, each well within a section is assigned a sequential map number using the last three digits. Thus, SB00601115BCAD1 001 indicated the Seward meridian (S), the northwest quadrant (B), township 6 north, range 11 west, section 15; and the well is in the SE¼ of the NE¼ of the SW¼ of the NW¼ of the section (BCAD). It was the first well in the 2.5 acre "D" subdivision assigned a sequential number (1). The next three digits, 001, indicate the sequence in which a well was located on a map. Thus 001 indicates it was the first well plotted in the one square mile section. The next space is left blank. The last five numbers, such as 00114, are the Alaska register number, that is provided for continuity with older reports. The use of this number, for new well sites, was discontinued in 1981. Therefore, the local number, for well sites established prior to 1981 is SB00601115BCAD1001 00114 and the number for new sites established beginning in 1981 is SB00601115BCAD1 001.

Measurements are made in many types of wells, under varying conditions of access and at different temperatures; hence, neither the method of measurement nor the equipment can be standardized. At each observation well, however, the equipment and techniques used are those that will ensure that measurements at each well are consistent.

Water-level measurements in this report are given in feet referred to either National Geodetic Vertical Datum (NGVD) or land-surface datum (lsd). National Geodetic Vertical Datum is the datum plane on which the national network of precise levels is based; land-surface datum is a datum plane that is approximately at land surface at each well. If known, the altitude of the land-surface datum is given in the well description. The height of the measuring point (MP) above or below land-surface datum is given in each well description. Water levels in wells equipped with recording gages are reported for every fifth day and the end of each month (eom). Daily water levels are reported for a few wells that may have significant fluctuations between every fifth day. The extreme water levels recorded during the year are reported as the highest water level (HWL) and as the lowest water level (LWL).

Water levels are reported to as many significant figures as can be justified by the local conditions. For example, in a measurement of a depth to water of several hundred feet or if an electric water sensor must be used, the error in determining the absolute value of the total depth to water may be five or more hundredths of a foot. However, the error in determining the net change of water level between successive measurements may be only a hundredth or a few hundredths of a foot. Accordingly, most measurements are reported to a hundredth of a foot, but a few are given only to a tenth of a foot.

PUBLICATIONS ON TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS

Thirty-seven manuals by the U.S. Geological Survey have been published to date in the series on techniques describing procedures for planning and executing specialized work in water-resources investigations. The material is grouped under major subject headings called books and is further divided into sections and chapters. For example, Section A of Book 3 (Applications of Hydraulics) is on surface water. The chapter, the unit of publication, is limited to a narrow field of subject matter. This format permits flexibility in revision and publication as the need arises. The reports listed below are for sale by the U.S. Geological Survey, Branch of Distribution, 604 South Pickett St., Alexandria, VA 22304 (authorized agent of the Superintendent of Documents, Government Printing Office).

NOTE: When ordering any of these publications, please give the title, book number, chapter number, and "U.S. Geological Survey Techniques of Water-Resources Investigations".

1-D1. *Water temperature--influential factors, field measurement, and data presentation*, by H. H. Stevens, Jr., J. F. Ficke, and G. F. Smoot: USGS--TWRI Book 1, Chapter D1. 1975. 65 pages.

1-D2. *Guidelines for collection and field analysis of ground-water samples for selected unstable constituents*, by W. W. Wood: USGS--TWRI Book 1, Chapter D2. 1976. 24 pages.

2-D1. *Application of surface geophysics to ground-water investigations*, by A. A. R. Zohdy, G. P. Eaton, and D. R. Mabey: USGS--TWRI Book 2, Chapter D1. 1974. 116 pages.

2-E1. *Application of borehole geophysics to water-resources investigations*, by W. S. Keys and L. M. MacCary: USGS--TWRI Book 2, Chapter E1. 1971. 126 pages.

3-A1. *General field and office procedures for indirect discharge measurements*, by M. A. Benson and Tate Dalrymple: USGS--TWRI Book 3, Chapter A1. 1967. 30 pages.

3-A2. *Measurement of peak discharge by the slope-area method*, by Tate Dalrymple and M. A. Benson: USGS--TWRI Book 3, Chapter A2. 1967. 12 pages.

3-A3. *Measurement of peak discharge at culverts by indirect methods*, by G. L. Bodhaine: USGS--TWRI Book 3, Chapter A3. 1968. 60 pages.

3-A4. *Measurement of peak discharge at width contractions by indirect methods*, by H. F. Matthai: USGS--TWRI Book 3, Chapter A4. 1967. 44 pages.

3-A5. *Measurement of peak discharge at dams by indirect methods*, by Harry Hulsing: USGS--TWRI Book 3, Chapter A5. 1967. 29 pages.

3-A6. *General procedure for gaging streams*, by R. W. Carter and Jacob Davidian: USGS--TWRI Book 3, Chapter A6. 1968. 13 pages.

3-A7. *Stage measurements at gaging stations*, by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A7. 1968. 28 pages.

3-A8. *Discharge measurements at gaging stations*, by T. J. Buchanan and W. P. Somers: USGS--TWRI Book 3, Chapter A8. 1969. 65 pages.

3-A9. *Measurement of time of travel and dispersion in streams by dye tracing*, by E. F. Hubbard, F. A. Kilpatrick, L. A. Martens, and J. F. Wilson, Jr.: USGS--TWRI Book 3, Chapter A9. 1982. 44 pages.

3-A11. *Measurement of discharge by moving-boat method*, by G. F. Smoot and C. E. Novak: USGS--TWRI Book 3, Chapter A11. 1969. 22 pages.

3-B1. *Aquifer-test design, observation, and data analysis*, by R. W. Stallman: USGS--TWRI Book 3, Chapter B1. 1971. 26 pages.

3-B2. *Introduction to ground-water hydraulics, a programed text for self-instruction*, by G. D. Bennett: USGS--TWRI Book 3, Chapter B2. 1976. 172 pages.

3-B3. *Type curves for selected problems of flow to wells in confined aquifers*, by J. E. Reed: USGS--TWRI Book 3, Chapter B3. 1980. 106 pages.

3-C1. *Fluvial sediment concepts*, by H. P. Guy: USGS--TWRI Book 3, Chapter C1. 1970. 55 pages.

3-C2. *Field methods for measurement of fluvial sediment*, by H. P. Guy and V. W. Norman: USGS--TWRI Book 3, Chapter C2. 1970. 59 pages.

3-C3. *Computation of fluvial-sediment discharge*, by George Porterfield: USGS--TWRI Book 3, Chapter C3. 1972. 66 pages.

4-A1. *Some statistical tools in hydrology*, by H. C. Riggs: USGS--TWRI Book 4, Chapter A1. 1968. 39 pages.

4-A2. *Frequency curves*, by H. C. Riggs: USGS--TWRI Book 4, Chapter A2. 1968. 15 pages.

4-B1. *Low-flow investigations*, by H. C. Riggs: USGS--TWRI Book 4, Chapter B1. 1972. 18 pages.

4-B2. *Storage analyses for water supply*, by H. C. Riggs and C. H. Hardison: USGS--TWRI Book 4, Chapter B2. 1973. 20 pages.

4-B3. *Regional analyses of streamflow characteristics*, by H. C. Riggs: USGS--TWRI Book 4, Chapter B3. 1973. 15 pages.

4-D1. *Computation of rate and volume of stream depletion by wells*, by C. T. Jenkins: USGS--TWRI Book 4, Chapter D1. 1970. 17 pages.

5-A1. *Methods for determination of inorganic substances in water and fluvial sediments*, by M. W. Skougstad and others, editors: USGS--TWRI Book 5, Chapter A1. 1979. 626 pages.

5-A2. *Determination of minor elements in water by emission spectroscopy*, by P. R. Barnett and E. C. Mallory, Jr.: USGS--TWRI Book 5, Chapter A2. 1971. 31 pages.

5-A3. *Methods for analysis of organic substances in water*, by D. F. Goerlitz and Eugene Brown: USGS--TWRI Book 5, Chapter A3. 1972. 40 pages.

5-A4. *Methods for collection and analysis of aquatic biological and microbiological samples*, edited by P. E. Greeson, T. A. Ehlke, G. A. Irwin, B. W. Lium, and K. V. Slack: USGS--TWRI Book 5, Chapter A4. 1977. 332 pages.

5-A5. *Methods for determination of radioactive substances in water and fluvial sediments*, by L. L. Thatcher, V. J. Janzer, and K. W. Edwards: USGS--TWRI Book 5, Chapter A5. 1977. 95 pages.

5-C1. *Laboratory theory and methods for sediment analysis*, by H. P. Guy: USGS--TWRI Book 5, Chapter C1. 1969. 58 pages.

7-C1. *Finite difference model for aquifer simulation in two dimensions with results of numerical experiments*, by P. C. Trescott, G. F. Pinder, and S. P. Larson: USGS--TWRI Book 7, Chapter C1. 1976. 116 pages.

7-C2. *Computer model of two-dimensional solute transport and dispersion in ground water*, by L. F. Konikow and J. D. Bredehoeft: USGS--TWRI Book 7, Chapter C2. 1978. 90 pages.

7-C3. *A model for simulation of flow in singular and interconnected channels*, by R. W. Schaffranek, R. A. Baltzer, and D. E. Goldberg: USGS--TWRI Book 7, Chapter C3. 1981. 110 pages.

8-A1. *Methods of measuring water levels in deep wells*, by M. S. Garber and F. C. Koopman: USGS--TWRI Book 8, Chapter A1. 1968. 23 pages

8-B2. *Calibration and maintenance of vertical-axis type current meters*, by G. F. Smoot and C. E. Novak: USGS--TWRI Book 8, Chapter B2. 1968. 15 pages.

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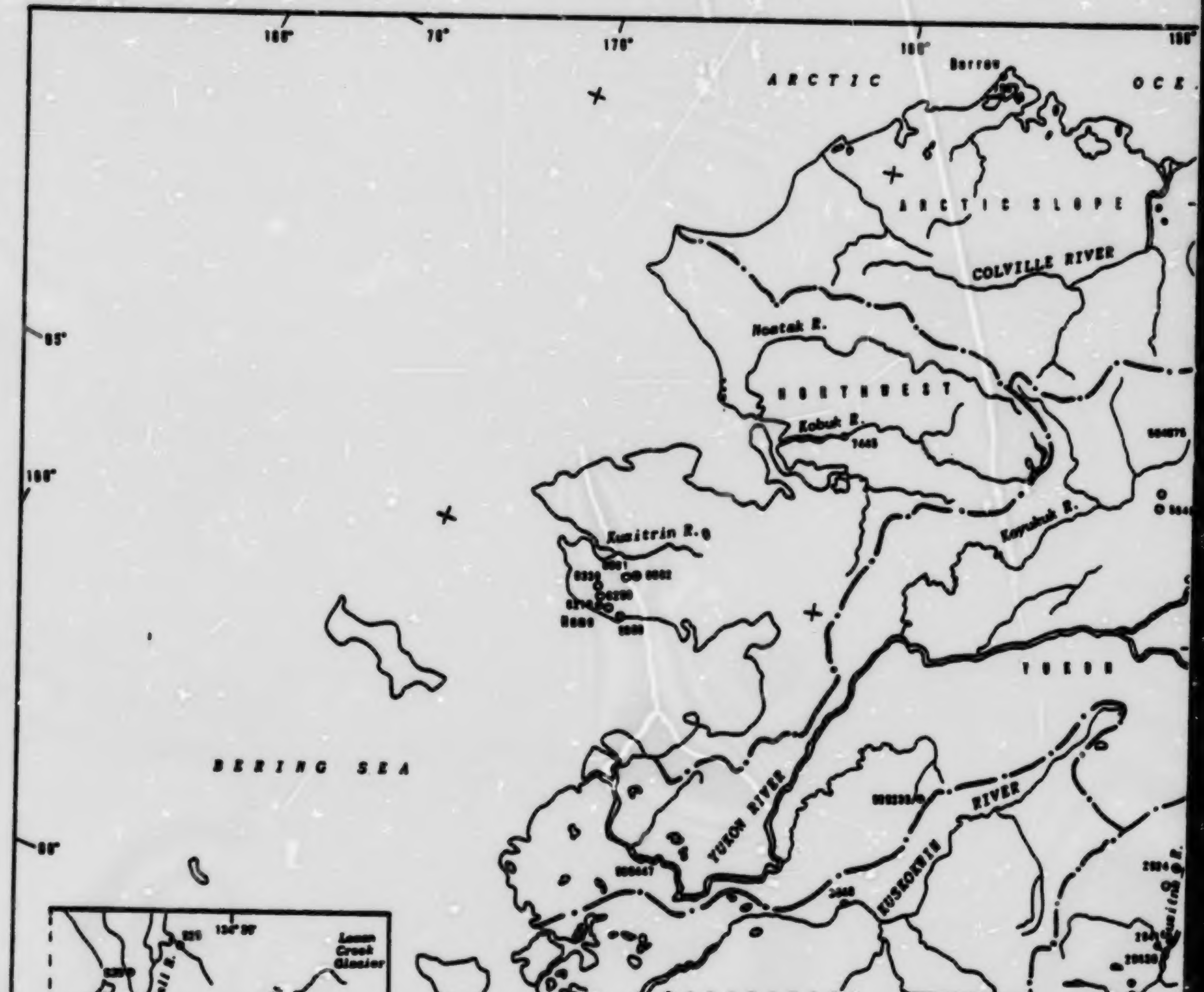
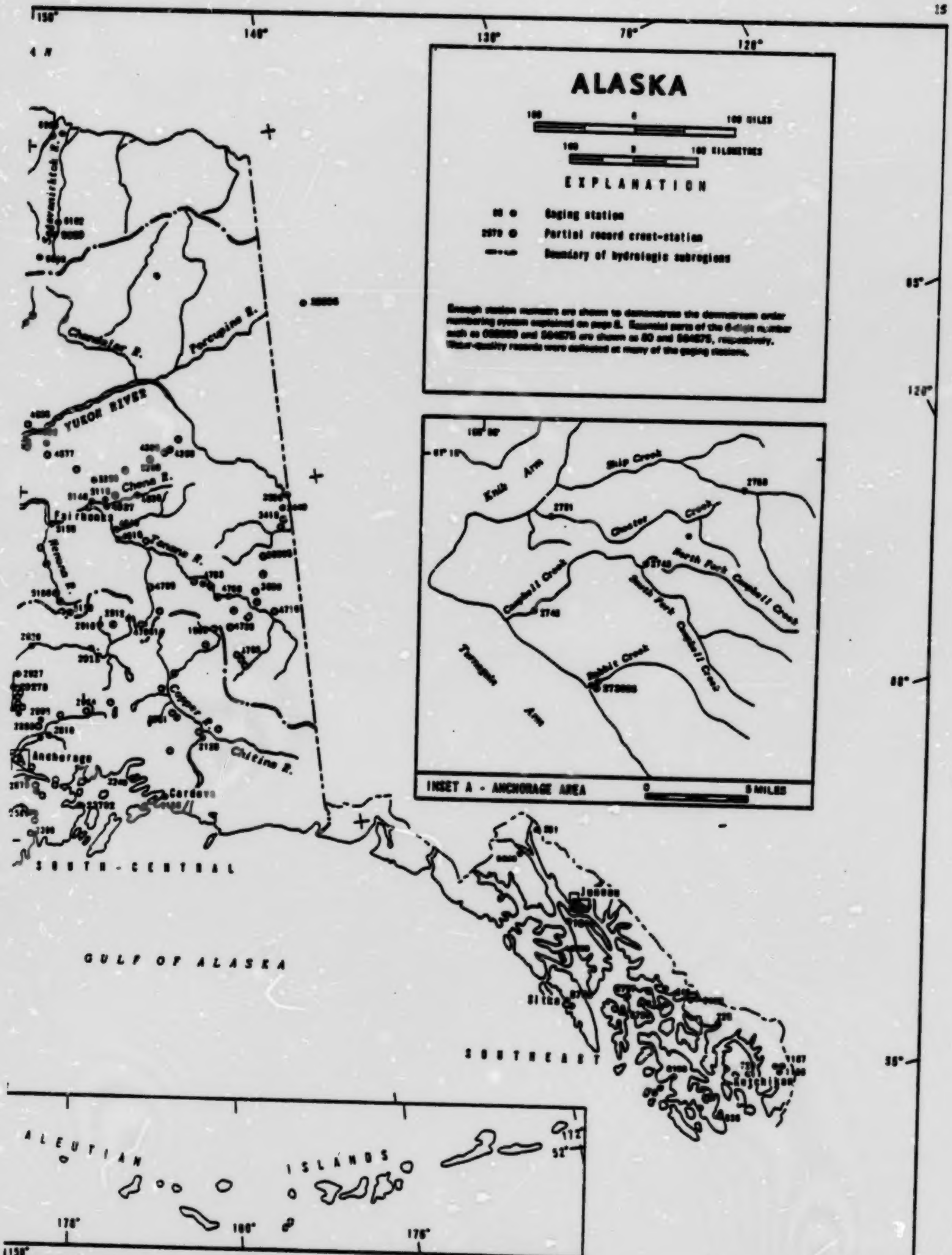

ARCTIC
OCE
Barrow
ARCTIC SLOPE
COLVILLE RIVER
Noatak R.
NORTHWEST
Kobuk R.
Koyukuk R.
Kuzitrin R.
Nome
BERING SEA
YUKON
YUKON RIVER
KUSKOKWIM RIVER
SOUTHWEST
Kodiak
ALEUTIAN ISLANDS
Lemon Creek Glacier
Mendenhall R.
Lemon Creek
52000
51000
Gold Creek
Fish Creek
Sheep Creek
DOUGLAS ISLAND
Gastineau Channel
Stephens Passage
INSET B - JUNEAU AREA
0
5 MILES
170°
180°

Figure 2. – Locations of gaging stations.


ALASKA
100 0 100 MILES
100 0 100 KILOMETRES
EXPLANATION
80 ● Gaging station
2370 ● Partial record crest-station
Boundary of hydrologic subregions
Enough station numbers are shown to demonstrate the downstream order numbering system explained on page 6. Essential parts of the 8-digit number such as [illegible] and [illegible] are shown as 80 and [illegible], respectively. Water-quality records were collected at many of the gaging stations.
INSET A - ANCHORAGE AREA
0 5 MILES
Knik Arm
Ship Creek
Chester Creek
North Fork Campbell Creek
South Fork Campbell Creek
Campbell Creek
Rabbit Creek
Turnagain Arm
2760
2751
2740
2743
273000
YUKON RIVER
Chandalar R.
Porcupine R.
Chena R.
Tanana R.
Copper R.
Chitina R.
Fairbanks
Anchorage
Cordova
Juneau
Sitka
Ketchikan
SOUTH-CENTRAL
GULF OF ALASKA
SOUTHEAST
ALEUTIAN ISLANDS
150°
140°
130°
70°
120°
65°
60°
55°
170°
180°
175°
52°

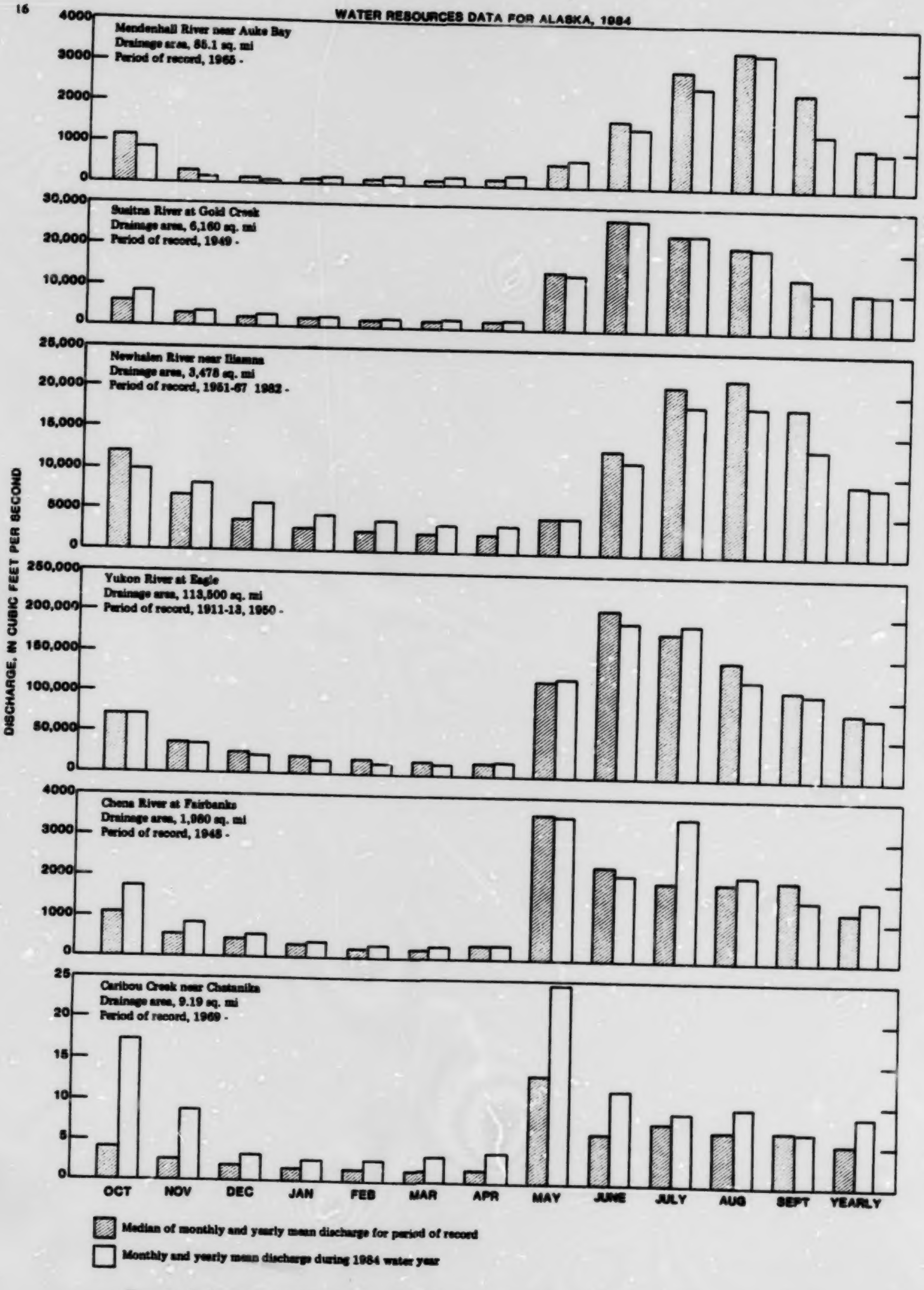


Figure 3. – Discharge during 1984 water year compared with mean discharge for period of record for six long-term gaging stations.

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SOUTHEAST ALASKA

15011870 WHITE CREEK NEAR KETCHIKAN

LOCATION.--Lat 55°24'51", long 130°27'38", in NW¼NW¼ sec.36, T.74 S., R.98 E., Hydrologic Unit 19060000, in Tongass National Forest, on left bank 0.5 mi upstream from mouth and 45 mi east of Ketchikan.

DRAINAGE AREA.--2.70 mi^2.

PERIOD OF RECORD.--September 1977 to September 1984 (discontinued).

REVISED RECORDS.--WDR AK-82-1: 1979, 1980 (M).

GAGE.--Water-stage recorder. Altitude of gage is 1,250 ft, from topographic map.

REMARKS.--Records good.

AVERAGE DISCHARGE.--7 years, 27.0 ft^3/s, 135.80 in/yr, 19,560 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 570 ft^3/s Nov. 5, 1981, gage height, 3.72 ft, from rating curve extended above 330 ft^3/s; minimum daily, 2.0 ft^3/s Feb. 24-26, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 176 ft^3/s Oct. 19, gage height, 2.23 ft, no peaks above base of 300 ft^3/s; minimum daily, 2.7 ft^3/s Dec. 28 and 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	24	5.9	9.0	27	8.7	18	21	30	49	19	56
2	24	27	5.6	92	27	7.9	15	21	30	46	16	41
3	73	50	5.6	36	19	7.3	13	18	47	36	18	25
4	109	46	5.4	90	18	7.4	15	17	62	37	15	22
5	50	28	5.2	62	15	8.6	13	18	59	74	14	19
6	28	21	4.8	26	43	13	11	20	49	60	31	15
7	29	17	4.9	16	94	18	11	26	50	46	20	13
8	22	15	4.8	11	35	22	15	42	48	40	43	11
9	19	13	4.5	12	20	21	15	32	47	61	74	11
10	16	12	4.4	13	16	23	13	28	51	81	38	26
11	15	23	4.2	12	13	28	13	30	49	62	22	16
12	13	19	4.2	10	12	20	14	30	46	68	17	12
13	12	14	4.2	8.4	12	18	18	28	43	54	15	11
14	11	12	4.1	7.4	10	15	18	37	54	38	15	9.6
15	9.8	14	4.0	6.6	9.2	12	26	46	47	30	13	9.2
16	9.9	28	3.6	5.6	8.4	11	23	49	65	65	11	61
17	13	19	3.1	5.2	11	13	17	41	39	35	18	49
18	66	16	2.8	4.9	11	36	16	54	37	34	17	114
19	94	14	3.0	4.7	49	26	16	61	34	40	20	53
20	90	11	3.2	4.6	41	17	19	69	37	30	16	26
21	76	9.9	3.1	4.7	20	15	54	42	49	26	13	25
22	78	9.3	3.0	7.3	13	27	28	33	55	23	11	18
23	38	9.2	2.9	20	10	31	21	40	60	23	10	14
24	74	8.6	3.2	18	9.1	21	15	55	64	26	12	12
25	100	8.0	3.4	19	8.1	29	13	39	50	25	60	10
26	46	7.8	3.2	53	7.4	20	12	35	71	26	59	9.3
27	32	7.5	2.9	70	7.0	16	13	35	68	28	33	8.5
28	74	7.2	2.7	28	6.7	26	15	51	53	21	33	10
29	129	6.8	2.8	16	7.3	23	16	37	36	20	31	9.1
30	63	6.3	2.7	29	---	23	17	41	36	36	39	8.5
31	31	---	2.9	27	---	21	---	34	---	28	75	---
TOTAL	1463.7	503.6	120.3	728.4	579.2	584.9	523	1130	1466	1268	828	724.2
MEAN	47.2	16.8	3.88	23.5	20.0	18.9	17.4	36.5	48.9	40.9	26.7	24.1
MAX	129	50	5.9	92	94	36	54	69	71	81	75	114
MIN	9.8	6.3	2.7	4.6	6.7	7.3	11	17	30	20	10	8.5
CFSM	17.5	6.22	1.44	8.70	7.41	7.00	6.44	13.5	18.1	15.1	9.89	8.93
IN.	20.16	6.94	1.66	10.03	7.98	8.06	7.20	15.56	20.19	17.46	11.40	9.97
AC-FT	2900	999	239	1440	1150	1160	1040	2240	2910	2520	1640	1440

CAL YR 1983 TOTAL 9444.5 MEAN 25.9 MAX 186 MIN 2.7 CFSM 9.59 IN 130.08 AC-FT 18730
WTR YR 1984 TOTAL 9919.3 MEAN 27.1 MAX 129 MIN 2.7 CFSM 10.0 IN 136.62 AC-FT 19670

SOUTHEAST ALASKA

15011880 KETA RIVER NEAR KETCHIKAN

LOCATION.--Lat 55°21'13", long 130°26'56", in SW¼NE¼ sec.24, T.75 S., R.98 E., Hydrologic Unit 19060000, in Tongass National Forest, on left bank 1.6 mi upstream from mouth at head of Boca de Quadra and 45 mi east of Ketchikan.

DRAINAGE AREA.--74.2 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1977 to September 1984 (discontinued).

REVISED RECORDS.--WDR AK-82-1: 1979.

GAGE.--Water-stage recorder. Altitude of gage is 40 ft, from topographic map.

REMARKS.--Records good.

AVERAGE DISCHARGE.--7 years, 764 ft³/s, 139.83 in/yr, 553,500 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 30,300 ft³/s Oct. 31, 1978, gage height, 8.80 ft, from rating curve extended above 3,200 ft³/s on basis of slope-conveyance study at gage height 6.23 ft; minimum daily, 46 ft³/s Feb. 28, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6,150 ft³/s Aug. 25, gage height, 6.05 ft, no peaks above base of 10,000 ft³/s; minimum, 54 ft³/s Dec. 30 and 31, gage height, 1.37 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	590	461	122	615	688	258	406	542	719	1430	816	1610
2	461	633	119	2170	890	269	348	538	682	1410	675	1270
3	2130	1140	119	851	550	262	301	447	1100	1140	816	703
4	2720	1180	115	2540	541	241	339	396	1740	1070	717	724
5	1280	806	110	1510	397	273	303	399	1750	2130	689	635
6	642	510	100	490	922	466	248	464	1340	1900	1730	473
7	629	388	96	302	2030	642	226	593	1230	1640	999	396
8	512	320	88	229	1000	758	261	1190	1220	1480	1830	338
9	410	269	86	257	489	707	298	895	1150	1780	2780	356
10	347	235	88	290	341	770	249	747	1310	2350	1560	824
11	318	371	88	294	283	838	246	741	1330	1810	849	524
12	290	479	90	232	281	590	254	804	1200	1930	634	382
13	257	322	90	182	366	461	378	711	1100	1730	589	314
14	228	264	88	159	311	371	375	804	1440	1240	603	282
15	202	264	86	144	245	285	549	1160	1260	962	542	294
16	205	552	77	131	220	245	718	1360	1750	2120	512	2110
17	309	507	70	115	278	270	456	1000	1060	1160	840	1650
18	1380	406	59	108	395	724	367	1310	1060	992	762	3180
19	2180	338	60	102	1270	682	365	1730	926	1250	1140	1690
20	2220	264	70	97	1080	420	430	1830	1040	971	732	710
21	2090	213	68	97	563	341	1100	1020	1490	796	490	597
22	2060	194	63	160	337	518	781	819	1640	748	436	490
23	923	182	62	713	258	841	661	993	1810	926	425	351
24	1380	170	72	689	211	556	416	1260	1790	1110	590	290
25	2750	159	73	718	181	841	337	935	1540	1170	3030	253
26	1090	157	65	1330	163	629	318	841	2250	1240	2810	222
27	687	179	60	2800	153	459	329	956	1950	1460	1320	202
28	1250	162	56	1130	153	570	342	1180	1600	971	1090	268
29	2570	151	57	495	194	546	396	942	1050	882	926	283
30	1530	134	56	717	---	504	444	962	993	1620	1320	266
31	665	---	57	875	---	433	---	807	---	1250	2340	---
TOTAL	34305	11430	2510	20542	14790	15770	12241	28376	40520	42668	34592	21687
MEAN	1107	381	81.0	663	510	509	408	915	1351	1376	1116	723
MAX	2750	1180	122	2800	2030	841	1100	1830	2250	2350	3030	3180
MIN	202	134	56	97	153	241	226	396	682	748	425	202
CFSM	14.9	5.14	1.09	8.94	6.88	6.86	5.50	12.3	18.2	18.6	15.1	9.75
IN.	17.21	5.73	1.26	10.31	7.42	7.91	6.14	14.24	20.33	21.41	17.35	10.88
AC-FT	68040	22670	4980	40750	29340	31280	24280	56280	80370	84630	68610	43020

CAL YR 1983 TOTAL 255095 MEAN 699 MAX 5710 MIN 56 CFSM 9.43 IN 127.98 AC-FT 506000
WTR YR 1984 TOTAL 279431 MEAN 763 MAX 3180 MIN 56 CFSM 10.3 IN 140.18 AC-FT 554300

15011880 KETA RIVER NEAR KETCHIKAN--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water year 1978 to current year (discontinued).

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: May to October 1978, March to November 1979, and February 1982 to current year (discontinued).
WATER TEMPERATURE: May to October 1978, March 1979 to September 1981, and February 1982 to current year (discontinued).

INSTRUMENTATION.--Water-quality monitor since May 26, 1978.

REMARKS.--Records fair. No temperature record Apr. 3 to Sept. 30, No specific conductance record Apr. 3 to June 7, due to equipment malfunction.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum recorded, 44 micromhos/cm at 25°C Aug. 15, 1983; minimum recorded, 8 micromhos/cm at 25°C May 20, 1983 and Jan. 26, 1984.
WATER TEMPERATURE: Maximum recorded, 14.5°C July 31, Aug. 2, 1978, Aug. 12, 1980, and Aug. 10, 15, 1981; minimum recorded, 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT PERIOD.--
SPECIFIC CONDUCTANCE: Maximum recorded, 39 micromhos/cm at 25°C Sept. 17; minimum recorded, 8 micromhos/cm at 25°C Jan. 26.
WATER TEMPERATURE: Maximum recorded, 8.5°C Oct. 1, but probably higher during period of no record; minimum recorded, 0.0°C Dec. 28-31, Jan. 16-23, and 26.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	22	19	20	19	23	22	26	12	17	15	22	21
2	21	20	20	19	24	22	13	10	16	15	21	20
3	20	15	19	15	24	23	18	13	18	16	21	20
4	16	14	17	15	24	23	18	10	19	17	22	21
5	24	15	18	16	24	23	16	11	20	19	23	21
6	25	19	20	18	24	22	17	16	19	15	23	19
7	20	19	21	20	24	22	19	17	16	12	21	18
8	20	19	21	20	23	22	20	19	17	14	21	18
9	21	20	22	21	24	23	21	20	18	17	20	17
10	22	21	23	21	24	23	21	19	19	18	19	18
11	22	22	23	18	24	24	20	20	19	19	20	17
12	23	22	20	18	25	23	21	20	20	19	20	17
13	23	23	21	20	26	25	21	20	19	18	22	18
14	23	23	22	21	26	25	21	20	20	18	21	19
15	24	23	22	22	26	25	22	21	21	20	21	19
16	24	24	22	19	25	23	23	21	21	20	23	21
17	24	23	20	19	24	23	22	21	21	19	23	21
18	23	15	20	20	24	23	23	21	19	18	21	16
19	17	15	21	20	24	24	23	22	18	13	17	16
20	17	15	21	20	25	24	23	22	15	15	21	17
21	17	14	21	20	25	24	23	22	18	15	22	20
22	18	15	22	21	25	24	23	19	19	18	21	17
23	19	18	23	22	26	24	19	13	20	18	18	16
24	20	15	23	22	25	24	18	13	21	20	20	17
25	16	15	23	22	25	25	18	13	22	20	18	13
26	19	17	24	23	25	25	17	8	22	21	19	16
27	20	18	24	23	26	25	12	10	23	21	20	18
28	19	16	23	22	26	25	16	13	23	22	19	17
29	15	13	23	22	26	25	18	16	23	22	19	17
30	18	14	23	21	26	25	17	13	---	---	20	18
31	19	18	---	---	26	25	16	13	---	---	21	19
MONTH	25	13	24	15	26	22	26	8	23	12	23	13

SOUTHEAST ALASKA

15011880 KETA RIVER NEAR KETCHIKAN--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	21	19			---	---	14	13	14	13	22	18
2	21	19			---	---	13	13	15	14	22	19
3	---	---			---	---	14	13	15	14	26	22
4	---	---			---	---	14	14	15	14	27	23
5	---	---			---	---	14	11	15	14	24	23
6	---	---			---	---	14	12	14	12	23	20
7	---	---			---	---	13	13	14	13	21	20
8	---	---			14	14	13	13	14	11	22	20
9	---	---			15	14	13	12	12	11	23	21
10	---	---			14	13	12	12	14	12	23	18
11	---	---			14	13	13	12	15	14	22	19
12	---	---			14	13	13	12	16	15	22	21
13	---	---			14	14	13	12	17	16	23	21
14	---	---			14	12	14	13	16	16	23	21
15	---	---			14	13	15	14	16	16	22	21
16	---	---			14	12	14	11	16	16	30	17
17	---	---			15	14	14	12	16	14	39	31
18	---	---			15	14	14	14	15	14	38	16
19	---	---			15	15	14	14	15	13	16	15
20	---	---			15	13	15	14	16	14	18	16
21	---	---			14	12	15	15	17	16	19	17
22	---	---			13	12	16	14	18	17	25	18
23	---	---			13	12	15	14	18	17	19	19
24	---	---			13	12	14	12	18	15	20	19
25	---	---			13	12	14	12	16	10	20	19
26	---	---			12	11	13	12	16	12	21	20
27	---	---			13	11	12	12	18	15	21	20
28	---	---			14	12	14	12	19	17	21	20
29	---	---			14	14	14	13	20	19	21	20
30	---	---			15	14	13	12	18	17	21	20
31	---	---			---	---	13	12	24	16	---	---
MONTH					15	11	16	11	24	10	39	15

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1983 TO APRIL 1984

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	8.5	7.5	5.0	4.0	2.0	1.5	.5	.5	2.0	1.5	3.0	2.5
2	8.0	7.5	5.5	5.0	2.5	2.0	.5	.5	2.0	1.0	2.5	2.0
3	7.5	7.5	5.0	5.0	2.5	2.0	2.0	.5	1.5	.5	3.0	2.0
4	7.5	7.0	5.0	3.5	2.5	2.0	2.0	1.5	1.5	1.0	3.0	2.5
5	8.0	7.0	4.5	3.5	2.5	2.0	2.5	2.0	2.0	1.5	3.5	2.5
6	7.5	7.0	4.5	4.0	2.0	1.5	2.5	1.5	2.0	2.0	3.5	2.5
7	7.5	7.0	5.0	4.5	2.0	1.0	1.5	1.0	2.0	1.5	3.5	2.5
8	7.5	7.0	4.5	4.0	1.0	.5	2.0	1.5	2.0	1.5	3.5	3.0
9	8.0	7.0	4.5	4.0	1.5	1.0	2.0	2.0	2.0	1.5	3.5	2.5
10	7.0	6.5	4.5	4.0	1.5	1.5	2.5	2.0	1.5	1.5	3.5	3.0
11	7.5	7.0	4.5	4.0	1.5	1.5	2.5	2.5	1.5	1.5	4.0	3.0
12	8.0	7.0	4.5	4.0	2.0	1.5	2.0	1.5	2.0	1.5	3.5	2.5
13	8.0	7.0	4.5	4.0	2.5	2.0	1.5	1.0	2.0	1.5	4.0	2.5
14	7.0	6.0	4.5	4.0	2.5	2.0	1.0	.5	2.0	1.5	3.0	2.5
15	6.0	5.5	4.5	4.0	2.5	2.0	1.0	.5	2.0	2.0	3.0	2.0
16	6.5	6.0	4.5	4.5	2.0	1.0	.5	.0	2.0	1.5	3.5	2.5
17	7.0	6.5	4.5	4.0	1.0	.5	.0	.0	2.0	2.0	4.0	3.0
18	6.5	6.0	4.5	4.0	.5	.5	.5	.0	2.0	1.5	3.5	3.0
19	6.5	6.0	4.0	3.5	.5	.5	.5	.0	2.0	1.5	3.0	2.5
20	6.5	5.5	3.5	3.0	.5	.5	.5	.0	2.0	2.0	4.0	2.5
21	6.5	6.0	3.0	2.5	.5	.5	.5	.0	2.0	2.0	4.5	3.5
22	6.0	5.5	3.0	2.5	.5	.5	.5	.0	2.0	1.5	4.0	3.5
23	6.0	5.5	3.5	3.0	.5	.5	.5	.0	2.0	1.5	3.5	3.0
24	5.5	5.0	3.5	3.0	.5	.5	1.0	.5	2.5	1.5	4.0	3.0
25	5.5	4.5	3.0	3.0	.5	.5	1.0	.5	2.5	1.5	3.5	3.0
26	5.5	5.0	3.5	3.0	.5	.5	1.0	.0	2.0	1.5	4.0	3.0
27	5.0	5.0	3.5	3.5	.5	.5	1.5	.5	2.5	1.5	4.0	3.5
28	5.0	5.0	3.0	2.5	.5	.0	1.5	1.5	3.0	2.0	4.0	3.5
29	5.0	5.0	2.5	2.0	.0	.0	1.5	1.5	3.0	2.5	4.0	3.5
30	5.5	5.0	2.0	1.5	.0	.0	1.5	1.0	---	---	4.5	3.5
31	5.0	4.0	---	---	.5	.0	1.5	1.5	---	---	5.5	4.0
MONTH	8.5	4.0	5.5	1.5	2.5	.0	2.5	.0	3.0	.5	5.5	2.0

15011880 KETA RIVER NEAR KETCHIKAN--Continued

TEMPERATURE, WATER (DEG. C), APRIL 1984

DAY	MAX	MIN
	APRIL	
1	5.0	4.0
2	4.5	3.5

15011894 BLOSSOM RIVER NEAR KETCHIKAN

LOCATION.--Lat 55°25'34", long 130°33'40", in SW¼NW¼ sec.29, T.74 S., R.98 E., Hydrologic Unit 19060000, in Tongass National Forest, on left bank 0.2 mi downstream from tributary, 2.5 mi upstream from mouth and 43 mi east of Ketchikan.

DRAINAGE AREA.--68.1 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--February 1981 to September 1984 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 30 ft, from topographic map.

REMARKS.--Records good.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,600 ft^3/s Oct. 9, 1982, gage height, 21.47 ft, from rating curve extended above 2,700 ft^3/s, on basis of slope-area measurement at gage height, 19.63 ft; minimum daily, 52 ft^3/s Mar. 4, 1982.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,580 ft^3/s Aug. 25, gage height, 18.04 ft, from rating curve extended as explained above; minimum daily, 53 ft^3/s Dec. 29,

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	530	427	120	653	506	198	318	369	544	1350	1010	1700
2	390	479	122	1830	612	207	284	386	532	1240	806	1420
3	1980	826	120	672	461	204	255	334	848	1010	992	759
4	2270	897	114	1810	444	198	275	294	1570	978	850	800
5	1200	615	109	1260	336	216	245	292	1560	1940	850	680
6	600	425	101	415	665	322	212	328	1190	1790	2080	502
7	606	341	95	268	1690	418	194	389	1070	1520	1180	431
8	488	289	92	213	831	484	202	761	1070	1500	2170	374
9	398	251	88	204	433	470	227	646	1020	1970	2860	410
10	332	222	93	252	320	511	198	536	1190	2530	2050	754
11	311	266	95	258	276	588	196	505	1210	1980	1110	506
12	284	317	95	204	269	448	199	562	1070	2100	783	406
13	258	244	95	167	322	366	271	512	901	1630	735	346
14	232	216	93	152	283	308	254	518	1270	1190	744	322
15	209	209	91	140	228	250	319	734	1120	902	666	350
16	205	333	83	127	209	221	458	953	1360	2420	635	1910
17	260	342	75	107	232	227	329	739	822	1440	1070	1810
18	1120	301	62	106	332	446	282	939	834	1240	1000	3220
19	1950	271	65	112	927	505	278	1300	723	1460	1380	1930
20	1950	222	70	106	758	338	308	1520	854	1130	824	753
21	1730	187	68	107	453	274	650	805	1370	879	557	576
22	1710	177	65	191	301	332	494	616	1610	843	525	457
23	768	172	64	508	242	506	477	648	1810	1090	522	370
24	941	164	62	483	207	382	340	923	1950	1380	649	318
25	2320	152	60	563	182	511	289	675	1600	1500	2930	284
26	980	157	58	956	167	470	271	611	2300	1560	2720	262
27	585	182	57	2220	155	354	269	697	1940	1650	1520	237
28	1100	174	55	848	152	378	262	912	1440	1170	1160	302
29	2350	147	53	410	162	427	290	703	901	1090	1000	329
30	1450	131	56	515	---	390	320	775	866	1990	1640	322
31	598	---	62	624	---	339	---	639	---	1630	2540	---
TOTAL	30105	9136	2538	16481	12155	11288	8966	20621	36545	46102	39558	22840
MEAN	971	305	81.9	532	419	364	299	665	1218	1487	1276	761
MAX	2350	897	122	2220	1690	588	650	1520	2300	2530	2930	3220
MIN	205	131	53	106	152	198	194	292	532	843	522	237
CFSM	14.3	4.48	1.20	7.81	6.15	5.35	4.39	9.77	17.9	21.8	18.7	11.2
IN.	16.44	4.99	1.39	9.00	6.64	6.17	4.90	11.26	19.96	25.18	21.61	12.48
AC-FT	59710	18120	5030	32690	24110	22390	17780	40900	72490	91440	78460	45300

CAL YR 1983 TOTAL 224459 MEAN 615 MAX 4950 MIN 53 CFSM 9.03 IN 122.61 AC-FT 445200
WTR YR 1984 TOTAL 256335 MEAN 700 MAX 3220 MIN 53 CFSM 10.3 IN 140.02 AC-FT 508400

15011894 BLOSSOM RIVER NEAR KETCHIKAN--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water year 1981 to current year (discontinued).

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: February 1981 to September 1984 (discontinued).
WATER TEMPERATURE: February 1981 to September 1984 (discontinued).

INSTRUMENTATION.--Water-quality monitor since Feb. 1981.

REMARKS.--Records fair. Periods of no record are due to equipment malfunction.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum recorded, 49 micromhos/cm at 25°C Jan. 4, 5, Mar. 4, and Apr. 6, 1982; minimum recorded, 8 micromhos/cm at 25°C Nov. 5, 9, and 11, 1981.
WATER TEMPERATURE: Maximum recorded, 14.0°C Aug. 10, 1981 and July 28, 29, 1982; minimum recorded, 0.0°C on many days during winter period.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum recorded, 38 micromhos/cm at 25°C Dec. 16, 18, 24, 28, and 29; minimum recorded, 10 micromhos/cm at 25°C Jan. 4 and 27.
WATER TEMPERATURE: Maximum recorded, 12.0°C July 25; minimum recorded, 0.0°C on many days during winter period.

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	25	17	26	24	32	30	18	12	22	19		
2	16	13	24	22	32	30	19	13	22	19		
3	18	14	23	17	33	31	19	11	23	21		
4	21	17	20	18	33	32	18	10	25	22		
5	22	20	23	17	33	32	23	18	26	23		
6	22	20	26	23	34	32	27	22	23	16		
7	24	22	27	24	35	33	28	26	19	14		
8	25	24	28	26	35	33	28	26	24	20		
9	26	25	29	27	34	33	26	24	25	23		
10	27	26	29	28	34	33	25	24	27	26		
11	28	26	29	23	34	33	28	24	28	26		
12	---	---	26	24	34	33	29	27	29	24		
13	---	---	28	26	34	33	30	28	25	24		
14	28	27	29	28	34	33	31	29	28	25		
15	28	28	29	25	36	33	---	---	28	27		
16	29	28	24	22	38	35	---	---	29	28		
17	29	26	25	24	37	35	32	31	28	23		
18	26	14	25	23	38	36	33	32	23	17		
19	17	14	27	25	37	36	33	32	20	17		
20	18	14	28	24	37	36	33	32	23	18		
21	19	14	30	28	37	36	33	30	---	---		
22	20	16	30	28	37	36	31	20	---	---		
23	23	21	30	29	37	36	21	15	---	---		
24	23	17	30	29	38	36	22	16	---	---		
25	19	16	31	29	36	34	22	16	---	---		
26	22	19	30	28	36	35	23	12	32	30		
27	24	22	28	27	37	35	17	10	36	31		
28	22	15	30	28	38	36	22	17	33	30		
29	16	14	31	30	38	36	25	22	30	28		
30	22	14	32	30	37	36	25	18	---	---		
31	24	22	---	---	36	20	21	18	---	---		
MONTH	29	13	32	17	38	20	33	10	36	14		

SOUTHEAST ALASKA

15011894 BLOSSOM RIVER NEAR KETCHIKAN--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	28	25	24	23	19	16	20	17	22	17
2	---	---	27	25	25	23	18	17	21	19	23	17
3	---	---	28	26	23	19	19	18	20	18	25	23
4	31	29	29	27	18	17	19	18	21	17	24	22
5	31	29	29	28	19	17	19	15	19	18	25	22
6	33	31	29	27	20	18	18	15	18	13	26	25
7	34	33	27	24	21	19	18	17	18	16	27	26
8	33	31	24	20	20	19	18	17	18	12	29	27
9	31	30	24	20	21	19	18	14	15	13	30	27
10	32	31	31	23	20	18	16	15	19	16	27	22
11	33	31	24	23	20	18	18	15	22	19	26	24
12	33	30	27	22	20	18	17	16	24	22	29	26
13	30	28	24	23	21	19	18	16	24	23	30	28
14	30	28	25	22	21	17	20	18	23	22	30	29
15	30	23	22	20	20	17	21	19	24	22	29	27
16	25	22	21	19	20	18	19	14	25	23	28	17
17	28	24	22	20	22	19	19	16	24	18	20	18
18	29	28	25	19	22	20	20	18	22	20	19	15
19	29	28	20	16	22	21	19	18	20	18	22	16
20	29	26	20	15	22	18	21	19	24	20	25	22
21	26	19	22	20	19	16	22	20	27	24	27	24
22	24	21	23	22	18	15	22	20	27	25	---	---
23	25	23	23	20	16	15	20	17	27	25	---	---
24	29	25	20	19	17	15	18	15	28	22	---	---
25	30	28	22	20	19	16	17	15	22	12	---	---
26	30	29	23	22	17	14	17	15	17	15	---	---
27	31	30	22	20	19	15	16	15	23	17	---	---
28	31	30	21	18	19	16	19	16	23	21	---	---
29	30	28	22	19	20	18	19	17	26	21	---	---
30	29	27	22	20	20	19	16	14	20	18	---	---
31	---	---	23	21	---	---	17	14	19	16	---	---
MONTH	34	19	31	15	25	14	22	14	28	12	30	15
YEAR	38	10										

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	7.5	7.5	5.0	4.0	1.0	1.0	.0	.0	2.5	2.5	3.5	2.5
2	8.0	7.0	5.5	5.0	1.5	1.0	1.0	.0	2.5	1.5	3.5	3.0
3	7.5	7.0	5.5	5.0	2.0	1.5	1.5	.5	2.5	2.0	3.5	3.0
4	8.0	7.0	5.0	3.5	2.0	2.0	2.0	1.5	2.5	2.0	4.0	3.0
5	7.5	7.0	4.5	3.5	2.0	1.5	2.5	1.5	3.0	2.5	---	---
6	7.0	7.0	4.5	4.0	1.5	.5	1.5	.5	3.0	2.5	---	---
7	7.5	6.0	5.0	4.0	.5	.5	1.5	1.5	2.5	2.0	---	---
8	7.5	6.5	4.0	4.0	.5	.5	2.0	1.5	2.5	2.5	---	---
9	7.0	6.5	4.5	4.0	.5	.5	2.5	2.0	2.5	2.0	---	---
10	7.0	6.5	4.0	4.0	1.0	.5	2.5	2.0	2.5	2.0	---	---
11	7.5	7.0	4.5	4.5	1.0	1.0	2.5	1.5	2.5	2.0	---	---
12	---	---	4.5	4.0	1.5	1.0	1.5	1.0	2.5	2.0	---	---
13	---	---	4.5	4.0	2.0	1.5	1.0	.5	2.5	2.0	---	---
14	7.0	6.0	4.5	4.0	1.5	1.5	.5	.0	2.5	2.5	---	---
15	6.0	5.0	5.0	4.0	1.5	.5	---	---	3.0	2.5	---	---
16	6.0	5.5	5.0	4.5	.5	.5	---	---	2.5	2.5	---	---
17	7.0	6.0	5.0	4.5	.5	.5	.0	.0	2.5	1.5	---	---
18	6.5	6.5	4.5	4.0	.5	.0	.5	.0	2.5	2.0	---	---
19	6.5	6.0	4.0	3.0	.0	.0	.5	.0	2.5	2.0	---	---
20	6.5	5.5	3.0	2.0	.0	.0	.5	.0	2.5	2.0	---	---
21	6.5	6.0	2.5	2.0	.0	.0	.5	.0	2.5	2.0	---	---
22	6.0	5.5	3.0	2.5	.0	.0	.5	.5	2.5	2.0	---	---
23	5.5	5.5	3.0	2.5	.0	.0	1.0	.5	2.5	2.0	---	---
24	5.5	5.0	3.0	2.5	.0	.0	1.5	1.0	2.5	2.0	---	---
25	5.5	5.0	3.0	2.5	.0	.0	1.5	.5	2.5	2.0	---	---
26	5.5	5.0	3.0	3.0	.0	.0	1.5	.5	3.0	2.5	---	---
27	5.0	5.0	3.0	2.5	.0	.0	2.0	1.5	3.5	2.5	---	---
28	5.0	5.0	2.5	1.5	.0	.0	2.5	2.0	3.5	3.0	---	---
29	5.0	5.0	1.5	1.0	.0	.0	2.5	1.5	3.5	3.0	---	---
30	5.5	4.5	1.0	.5	.0	.0	2.0	1.5	---	---	---	---
31	4.5	4.0	---	---	.0	.0	2.5	2.0	---	---	---	---
MONTH	8.0	4.0	5.5	.5	2.0	.0	2.5	.0	3.5	1.5	4.0	2.5

15011894 BLOSSOM RIVER NEAR KETCHIKAN--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	7.0	5.5	6.5	5.5	7.5	6.0	10.5	8.0	8.0	7.5
2	---	---	6.5	5.0	6.5	5.5	7.5	6.0	11.5	8.0	9.0	7.0
3	---	---	6.0	4.5	6.5	5.5	8.0	6.0	10.5	8.5	8.5	8.0
4	6.0	4.5	6.5	4.5	6.5	5.0	8.5	6.0	11.0	8.5	8.5	7.5
5	5.0	4.0	7.5	4.5	7.5	5.0	7.5	6.5	11.0	9.0	9.0	8.0
6	5.5	4.0	7.5	5.0	7.5	5.0	7.0	6.0	10.5	9.0	9.0	8.0
7	5.5	4.5	7.0	4.5	7.5	5.5	7.5	6.5	9.5	8.0	8.5	7.5
8	5.5	4.5	6.5	5.0	7.5	5.5	7.0	6.0	10.0	8.5	9.0	7.0
9	5.5	4.0	6.5	4.0	9.0	5.0	7.0	6.0	9.0	8.5	8.5	8.0
10	6.0	4.0	6.5	4.5	9.0	5.5	7.5	6.5	9.5	8.0	9.0	8.0
11	6.0	4.5	8.0	4.5	7.5	5.5	7.5	6.0	11.0	8.5	9.5	8.5
12	6.0	4.5	6.0	4.5	8.0	5.5	8.0	6.5	10.0	8.5	9.0	7.5
13	7.0	4.5	6.5	5.0	7.5	5.5	8.5	6.5	9.5	9.0	9.5	7.5
14	5.5	5.0	6.0	5.5	7.0	6.0	7.5	6.5	10.5	8.5	9.5	8.5
15	5.0	4.0	6.5	4.5	6.5	5.0	9.0	6.5	11.5	9.0	9.0	8.5
16	5.5	3.5	6.0	4.5	6.0	5.0	9.0	7.5	11.5	9.5	8.5	8.5
17	6.5	3.5	6.5	4.5	7.5	5.5	8.5	6.5	11.5	10.0	8.5	8.0
18	6.0	4.0	6.0	4.5	7.0	5.5	7.5	6.5	9.5	9.0	8.5	7.0
19	6.0	4.5	6.5	4.5	7.5	5.5	8.0	6.5	10.0	9.0	8.5	7.5
20	6.0	5.0	6.0	4.0	10.5	5.5	8.0	7.0	9.5	8.5	8.5	7.0
21	5.0	4.0	7.0	4.5	10.5	6.0	8.0	7.0	10.5	8.0	8.0	7.5
22	5.0	3.5	6.5	4.0	7.5	5.5	11.0	7.0	11.5	9.5	---	---
23	4.0	2.5	6.5	5.0	7.5	5.5	11.5	7.0	10.5	9.5	---	---
24	5.0	2.5	6.0	4.5	7.5	5.5	11.5	8.0	10.0	9.0	---	---
25	7.0	3.5	8.0	4.5	7.5	5.5	12.0	7.5	10.0	9.0	---	---
26	7.0	3.5	8.0	4.5	7.0	6.0	10.0	8.0	9.5	8.0	---	---
27	6.5	4.0	8.5	5.5	6.5	5.5	9.0	7.5	8.5	7.0	---	---
28	7.5	4.0	6.5	5.0	8.0	5.5	9.5	7.0	9.0	8.0	---	---
29	7.5	4.0	7.5	5.0	9.0	5.5	10.0	8.5	8.5	7.5	---	---
30	7.0	4.5	6.5	4.5	7.5	6.5	10.0	8.5	9.0	7.5	---	---
31	---	---	7.5	5.0	---	---	9.5	8.0	8.5	7.5	---	---
MONTH	7.5	2.5	8.5	4.0	10.5	5.0	12.0	6.0	11.5	7.0	9.5	7.0
YEAR	12.0	.0										

SOUTHEAST ALASKA

15022000 HARDING RIVER NEAR WRANGELL

LOCATION.--Lat 56°12'48", long 131°38'12", in SW¼SW¼ sec.22, T.65 S., R.89 E., Hydrologic Unit 19060000, in Tongass National Forest, on right bank 1 mi upstream from mouth on north shore of Bradfield Canal, 4 mi downstream from Fall Lake, and 34 mi southeast of Wrangell.

DRAINAGE AREA.--67.4 mi².

PERIOD OF RECORD.--August 1951 to current year.

REVISED RECORDS.--WSP 1640: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 20 ft, by barometer. Prior to Sept. 30, 1960, at site 300 ft upstream at datum 0.12 ft lower. Oct. 1, 1960, to Aug. 23, 1975, at prior site and present datum.

REMARKS.--Records good, except those for January, which are fair.

AVERAGE DISCHARGE.--33 years, 730 ft³/s, 147.08 in/yr, 528,900 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 15,000 ft³/s Oct. 14, 1961, gage height, 16.22 ft, site then in use, from rating curve extended above 5,000 ft³/s on basis of slope-area measurement at gage height, 13.90 ft; minimum daily, 35 ft³/s Jan. 23 to Feb. 5, 1969.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6,360 ft³/s Aug. 25, gage height, 10.90 ft, only peak above base of 4,000 ft³/s; minimum daily, 68 ft³/s Dec. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	793	489	117	300	500	205	381	344	609	1060	1060	1180
2	587	764	116	2600	850	222	315	386	749	1330	837	963
3	1560	764	113	1500	520	210	272	354	1200	1240	938	736
4	1230	708	105	2100	430	280	283	319	1450	1070	957	705
5	1180	543	102	1150	520	250	287	304	1410	975	915	611
6	653	397	94	740	600	276	255	333	1090	1190	1240	509
7	822	314	98	460	1150	379	232	375	968	1240	1020	446
8	722	263	134	300	750	440	226	597	839	1400	1380	405
9	519	229	137	400	560	427	271	670	855	1800	3090	413
10	414	209	190	450	420	535	249	600	1000	2040	2240	591
11	431	213	186	400	320	654	244	577	1060	1410	1200	508
12	471	250	171	320	280	554	254	666	1070	1640	856	425
13	392	221	134	270	260	440	348	658	1060	1410	950	404
14	319	193	116	220	245	352	325	689	1460	1420	873	403
15	277	190	119	180	212	277	342	862	1320	1210	812	526
16	246	242	90	150	202	239	444	956	1030	2610	727	1350
17	259	310	80	135	217	257	361	943	826	1530	864	1960
18	729	291	75	125	291	340	284	930	827	1120	1260	2090
19	1120	282	79	120	418	526	264	1010	782	969	1130	1130
20	1140	228	82	120	527	408	309	1090	875	836	910	720
21	1610	186	79	130	469	287	518	826	1100	716	785	570
22	1410	169	75	200	296	311	589	675	1330	675	701	464
23	882	167	74	420	232	428	466	630	1400	816	685	375
24	921	154	77	370	194	424	370	813	1430	1120	1060	319
25	1920	140	79	700	168	438	298	875	1330	1190	4020	279
26	936	135	77	1400	154	607	253	744	1920	1220	3710	249
27	673	159	74	2500	153	464	237	645	1710	1310	1540	222
28	750	175	71	1100	148	409	230	773	1350	1040	1400	839
29	1150	145	69	550	165	463	253	762	961	1010	1300	1090
30	1020	126	68	700	---	420	314	611	950	1610	1570	641
31	633	---	75	800	---	414	---	551	---	1590	1750	---
TOTAL	25769	8656	3156	20910	11251	11936	9474	20568	33961	39797	41780	21123
MEAN	831	289	102	675	388	385	316	663	1132	1284	1348	704
MAX	1920	764	190	2600	1150	654	589	1090	1920	2610	4020	2090
MIN	246	126	68	120	148	205	226	304	609	675	685	222
CFSM	12.3	4.29	1.51	10.0	5.76	5.71	4.69	9.84	16.8	19.1	20.0	10.4
IN.	14.22	4.78	1.74	11.54	6.21	6.59	5.23	11.35	18.74	21.96	23.06	11.66
AC-FT	51110	17170	6260	41470	22320	23680	18790	40800	67360	78940	82870	41900

CAL YR 1983 TOTAL 254782 MEAN 698 MAX 4360 MIN 68 CFSM 10.4 IN 140.62 AC-FT 505400
WTR YR 1984 TOTAL 248381 MEAN 679 MAX 4020 MIN 68 CFSM 10.1 IN 137.09 AC-FT 492700

NOTE.--No gage-height record Jan. 2 to Feb. 14.

15024750 GOAT CREEK NEAR WRANGELL

LOCATION.--Lat 56°39'40", long 131°58'14", in NE¼NE¼ sec.23, T.60 S., R.85 E., Hydrologic Unit 19060000, in Tongass National Forest, on left bank 0.4 mi upstream from mouth and 20 mi northeast of Wrangell.

DRAINAGE AREA.--17.3 mi^2.

PERIOD OF RECORD.--August 1976 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 35 ft, from topographic map.

REMARKS.--Records good except those for December and January, which are poor.

AVERAGE DISCHARGE.--8 years, 190 ft^3/s, 149.14 in/yr, 137,700 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,020 ft^3/s Sept. 11, 1981, gage height, 7.04 ft, from rating curve extended above 720 ft^3/s; minimum daily, 3.3 ft^3/s Feb. 14 and 15, 1982.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 900 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jan. 2	Unknown	*Unknown	Unknown	Jan. 27	1300	Unknown	*a4.17

a Backwater due to ice jam.

Minimum daily discharge, 14 ft^3/s Dec. 31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	144	103	24	150	110	46	76	97	230	297	297	301
2	133	100	23	700	155	47	66	110	261	327	236	266
3	291	113	23	280	105	44	63	105	398	338	256	197
4	307	127	22	570	90	49	62	100	484	308	246	164
5	243	107	21	290	98	48	62	102	426	297	233	140
6	164	85	19	150	114	44	58	112	376	350	312	117
7	171	72	20	75	239	44	57	133	358	393	246	103
8	157	60	23	65	194	49	63	188	316	393	356	92
9	122	53	25	85	123	52	68	206	316	430	666	93
10	104	46	26	95	93	58	66	203	354	520	499	110
11	117	48	26	80	79	74	68	227	376	407	312	108
12	116	61	24	60	68	78	70	256	389	380	210	100
13	100	55	23	52	63	74	92	262	389	363	220	115
14	82	50	22	44	60	64	90	256	484	338	205	107
15	70	47	23	36	55	58	93	304	547	350	185	161
16	63	48	22	30	51	53	95	354	398	656	170	389
17	62	45	20	28	50	52	76	323	323	499	210	586
18	227	44	19	26	55	57	66	312	297	338	290	536
19	370	42	19	25	73	80	65	346	286	259	240	312
20	334	38	19	25	117	78	80	371	312	230	200	191
21	451	35	18	28	105	62	150	312	371	206	175	135
22	484	34	18	35	78	62	148	246	440	191	155	105
23	290	34	18	58	66	95	114	236	421	200	140	87
24	229	34	18	90	57	89	90	276	416	276	191	74
25	532	31	17	120	48	121	73	294	402	312	615	65
26	332	32	17	250	44	119	64	266	494	312	783	58
27	204	34	16	500	44	97	62	233	558	327	454	55
28	205	34	16	230	43	98	63	283	459	266	312	183
29	196	30	16	137	44	97	70	283	338	256	283	256
30	168	26	15	119	---	103	79	233	294	354	334	178
31	129	---	14	144	---	89	---	212	---	407	398	---
TOTAL	6597	1668	626	4577	2521	2181	2349	7241	11513	10580	9429	5384
MEAN	213	55.6	20.2	148	86.9	70.4	78.3	234	384	341	304	179
MAX	532	127	26	700	239	121	150	371	558	656	783	586
MIN	62	26	14	25	43	44	57	97	230	191	140	55
CFSM	12.3	3.21	1.17	8.56	5.02	4.07	4.53	13.5	22.2	19.7	17.6	10.3
IN.	14.18	3.59	1.35	9.84	5.42	4.69	5.05	15.57	24.75	22.75	20.27	11.58
AC-FT	13090	3310	1240	9080	5000	4330	4660	14360	22840	20990	18700	10680

CAL YR 1983 TOTAL 64464 MEAN 177 MAX 1120 MIN 10 CFSM 10.2 IN 138.61 AC-FT 127900
WTR YR 1984 TOTAL 64666 MEAN 177 MAX 783 MIN 14 CFSM 10.2 IN 139.04 AC-FT 128300

15024800 STIKINE RIVER NEAR WRANGELL

(National stream-quality accounting network station)

LOCATION.--Lat 56°42'29", long 132°07'49", in SE¼SE¼ sec.35, T.59 S., R.84 E., Hydrologic Unit 19060000, on right bank about 10 mi upstream from mouth near Point Rothsay, 11 mi west of Alaska-British Columbia boundary, and 18 mi northeast of Wrangell.

DRAINAGE AREA.--19,920 mi², approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1976 to current year.

REVISED RECORDS.--WDR AK-78-1: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 25 ft, from topographic map.

REMARKS.--Records good except those for Nov. 9 to Apr. 13, which are poor. Satellite telemeter at station.

AVERAGE DISCHARGE.--8 years, 55,400 ft³/s, 37.77 in/yr, 40,140,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 300,000 ft³/s Sept. 11, 1981, gage height, 28.22 ft; minimum daily, 4,500 ft³/s Mar. 20 and 21, 1978.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 164,000 ft³/s Aug. 9, gage height, 22.38 ft; minimum daily, 5,500 ft³/s Dec. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39600	25900	10000	8000	15000	6000	16300	19200	51400	106000	140000	81400
2	43100	24200	10000	12000	15500	6500	16000	20500	50000	100000	126000	74900
3	49400	24000	9800	15000	16000	7000	15600	21000	54200	100000	123000	69400
4	54500	25100	9700	17000	15000	7600	15600	20700	61000	98500	129000	68100
5	51900	25600	9600	20000	14500	8200	16000	20400	64000	97500	132000	66500
6	48200	22900	9500	16000	14000	9000	15700	20600	73000	103000	141000	64700
7	43800	20900	9300	13000	15000	9900	15500	21300	83500	120000	146000	65400
8	39700	19000	9000	11500	17000	11000	15400	24100	92000	130000	132000	65400
9	36400	17500	8800	10000	14500	12500	15400	27900	99000	136000	151000	64200
10	33100	16800	8500	9000	12500	14000	15500	28900	110000	140000	154000	63000
11	30500	15800	8400	8300	11000	15000	16000	30500	121000	131000	131000	61600
12	29800	15000	8400	7800	10000	16000	16500	33600	123000	122000	115000	60900
13	29200	14400	8400	7400	9300	15500	17200	35700	120000	119000	107000	60300
14	27800	13800	8500	7000	8700	14500	17900	38400	117000	117000	105000	58100
15	25600	13300	8600	6800	8300	13500	18600	43700	112000	114000	106000	58800
16	23700	12900	8400	6500	8100	12800	18900	50400	105000	129000	102000	71000
17	22700	12500	8200	6300	8100	12500	18200	54300	100000	141000	103000	82300
18	25500	12200	7900	6200	8100	12500	17200	59300	96000	125000	104000	82000
19	35200	11900	7700	6400	8600	13500	16700	62800	96000	111000	109000	70100
20	38000	11600	7400	6500	9400	14500	17200	64500	105000	101000	109000	59500
21	40000	11400	7100	6600	10000	14300	19800	63200	114000	95500	109000	52900
22	45500	11100	6800	6700	8800	14300	21700	59600	134000	93000	105000	48400
23	40000	10900	6600	6700	8000	14700	20900	55100	139000	96600	102000	44700
24	40800	10600	6400	6600	7500	15200	19500	54600	137000	109000	99000	41200
25	43800	10300	6200	6200	7100	15600	18200	57400	140000	127000	113000	38200
26	40800	10100	6000	5800	6700	16000	17100	58300	146000	146000	141000	35900
27	33100	10000	5900	7000	6400	16200	16700	58300	152000	144000	138000	33600
28	31500	9900	5700	8400	6200	16000	16700	60300	143000	136000	111000	35700
29	33500	9900	5600	10000	6100	15800	17300	61200	129000	137000	94400	41900
30	35600	9900	5500	12500	---	16000	18400	55900	116000	146000	87100	40500
31	30500	---	6400	14500	---	16200	---	52200	---	153000	85400	---
TOTAL	1142800	459400	244300	291700	305400	402300	517700	1333900	3183100	3724100	3649900	1760600
MEAN	36860	15310	7881	9410	10530	12980	17260	43030	106100	120100	117700	58690
MAX	54500	25900	10000	20000	17000	16200	21700	64500	152000	153000	154000	82300
MIN	22700	9900	5500	5800	6100	6000	15400	19200	50000	93000	85400	33600
CFSM	1.85	.77	.40	.47	.53	.65	.87	2.16	5.33	6.03	5.91	2.95
IN.	2.13	.86	.46	.54	.57	.75	.97	2.49	5.94	6.95	6.82	3.29
AC-FT	2267000	911200	484600	578600	605800	798000	1027000	2646000	6314000	7387000	7240000	3492000

CAL YR 1983 TOTAL 17608500 MEAN 48240 MAX 199000 MIN 5500 CFSM 2.42 IN 32.88 AC-FT 34930000
WTR YR 1984 TOTAL 17015200 MEAN 46490 MAX 154000 MIN 5500 CFSM 2.33 IN 31.78 AC-FT 33750000

15024800 STIKINE RIVER NEAR WRANGELL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water year 1975 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: July 1976 to 1981. Once daily observations May 29 to October 11, 1982 (discontinued).
SUSPENDED SEDIMENT DISCHARGE: May 28 to October 12, 1982 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	SAMPLE LOCATION, CROSS SECTION (FT FM L BANK) (00009)	SPECIFIC CONDUCTANCE (UMHOS) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE (DEG C) (00010)
OCT					
05...	1605	1330	99	8.5	6.0
05...	1610	1200	116	8.5	5.0
05...	1615	1050	116	8.5	6.0
05...	1620	900	116	8.3	6.0
05...	1625	750	127	8.2	6.0
05...	1630	600	128	8.2	6.5
AUG					
16...	1050	1250	98	6.8	9.5
16...	1055	1100	100	7.2	10.5
16...	1100	950	8[illegible]	7.3	9.5
16...	1105	800	102	7.3	9.5
16...	1110	500	102	7.3	9.5

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS) (00061)	SPECIFIC CONDUCTANCE (UMHOS) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE, AIR (DEG C) (00020)	TEMPERATURE (DEG C) (00010)	TURBIDITY (NTU) (00076)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVE (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)
OCT											
05...	1600	52200	120	8.5	7.0	6.0	14	--	11.6	--	3
JAN											
19...	1200	6370	251	7.7	-3.0	.0	.90	766	9.4	64	--
APR											
17...	1300	18200	195	7.6	7.0	5.0	4.9	--	10.2	--	--
JUN											
21...	1000	116000	102	7.1	15.5	10.5	--	762	10.8	97	--
AUG											
16...	1045	100000	97	7.3	16.0	9.5	60	730	9.7	89	--

DATE	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	HARDNESS (MG/L AS CACO3) (00900)	HARDNESS, NONCARBONATE (MG/L CACO3) (00902)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	ALKALINITY FIELD (MG/L AS CACO3) (00410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)
OCT											
05...	36	55	6	17	2.9	2.4	2.3	49	13	.80	<.10
JAN											
19...	--	100	24	31	5.4	5.7	1.2	76	21	4.0	<.10
APR											
17...	--	82	12	26	4.2	4.9	1.1	71	18	4.1	.10
JUN											
21...	--	--	--	--	--	--	--	--	--	--	--
AUG											
16...	--	46	9	15	2.1	1.4	1.1	41	9.4	1.1	<.10

15024800 STIKINE RIVER NEAR WRANGALL--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P) (00671)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)
OCT 05...	4.2	72	72	<.10	.060	.40	.100	.060	<.010	50	<1
JAN 19...	7.1	128	120	.14	.090	<.20	.010	<.010	.010	20	1
APR 17...	5.8	112	110	.25	.060	<.20	.020	.050	.060	20	<1
JUN 21...	--	--	--	--	--	--	--	--	--	--	--
AUG 16...	3.0	56	56	<.10	.050	<.20	.110	.010	.010	130	2

DATE	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LITHIUM DIS-SOLVED (UG/L AS LI) (01130)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)
OCT 05...	35	<.5	<1	<1	<3	1	39	3	4	8
JAN 19...	58	<.5	1	<1	<3	<1	20	<1	9	32
APR 17...	52	1.1	<1	<1	<3	2	48	<1	5	32
JUN 21...	--	--	--	--	--	--	--	--	--	--
AUG 16...	35	1.0	<1	<1	<3	8	93	2	4	6

DATE	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
OCT 05...	.3	<10	12	<1	<1	100	<6	35	116	16300
JAN 19...	<.1	<10	3	<1	<1	160	<6	9	--	--
APR 17...	1.3	<10	7	<1	<1	140	<6	34	--	--
JUN 21...	--	--	--	--	--	--	--	--	--	--
AUG 16...	.4	<10	13	<1	1	79	<6	14	259	69900

15028300 FARRAGUT RIVER NEAR PETERSBURG

LOCATION.--Lat 57°10'24", long 133°06'36", in NE¼SW¼ sec.24, T.54 S., R.77 E., Hydrologic Unit 19060000, in Tongass National Forest, on left bank 2.2 mi upstream from mouth and 26 mi northwest of Petersburg.

DRAINAGE AREA.--151 mi².

PERIOD OF RECORD.--June 1977 to current year.

REVISED RECORDS.--WDR AK-80-1: 1977-78.

GAGE.--Water-stage recorder. Altitude of gage is 25 ft, from topographic map.

REMARKS.--Records good except those for Dec. 12 to Feb. 15, which are poor. Streamflow affected by glaciers which cover 26 percent of the basin.

AVERAGE DISCHARGE.--7 years, 1,543 ft³/s, 138.77 in/yr, 1,118,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge recorded, 16,400 ft³/s Oct. 9, 1979, gage height, 15.23 ft, from rating curve extended above 8,500 ft³/s, but may have been higher Nov. 5, 1981 during period of no gage-height record; minimum daily, 95 ft³/s Feb. 22 and 23, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 9,070 ft³/s, Aug. 25, gage height, 11.47 ft, only peak above base of 8,000 ft³/s; minimum, 96 ft³/s Dec. 18, gage height, 2.49 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1500	941	198	850	1400	473	838	664	1510	1780	2350	2120
2	1470	1720	205	6000	2000	655	660	649	2020	2350	2070	2030
3	2820	1180	202	3500	1550	499	573	576	1870	2390	2170	1820
4	2370	1100	196	5000	1050	924	573	529	2430	2030	2210	1580
5	1720	976	179	3100	1450	667	568	545	2320	1980	2220	1340
6	1410	744	169	2000	2000	669	504	585	1900	2080	2480	1210
7	1570	602	150	1250	2700	784	444	669	1750	2230	2200	1120
8	1330	506	121	800	2000	815	412	909	1620	2160	2480	1020
9	1110	441	141	950	1400	710	482	903	1590	3160	3920	998
10	1030	386	175	1150	850	1030	430	887	1710	4160	3550	946
11	1180	370	150	940	700	1080	402	999	1800	2930	2660	873
12	1320	649	138	760	610	860	433	1090	2100	2930	2350	887
13	1110	437	130	650	550	710	590	1110	1930	2690	2540	882
14	943	370	121	550	510	626	493	1160	2620	2630	2180	1020
15	783	347	120	460	470	539	471	1300	2650	2390	1990	1870
16	659	397	101	390	510	486	590	1360	1980	4430	1940	2430
17	642	578	103	350	632	673	481	1260	1730	3640	2000	3450
18	2080	528	104	330	862	1010	406	1440	1580	2710	2150	2890
19	2040	476	106	315	1330	1380	387	1410	1500	2250	2190	2370
20	1940	365	125	325	2100	890	580	1420	1580	1890	2420	1720
21	2450	298	124	340	1180	654	1030	1280	1860	1640	2590	1360
22	2220	289	120	400	803	732	928	1160	2090	1520	2130	1140
23	1730	275	118	1050	624	1360	824	1090	2110	1610	1940	985
24	2310	252	118	980	490	1150	686	1460	2030	1990	2510	842
25	3900	218	120	1650	424	1180	564	1330	1990	2220	7070	739
26	1840	252	119	3000	374	1430	486	1180	2750	2160	7150	669
27	1530	365	117	5600	355	1120	444	1140	2810	2350	4210	598
28	2030	326	115	3000	378	857	444	1410	2170	2110	3530	1290
29	1660	245	113	1400	423	1090	476	1370	1830	2100	2910	1500
30	1450	205	115	2000	---	1340	519	1130	1720	2640	2880	1780
31	1070	---	120	1600	---	1150	---	1060	---	2700	3100	---
TOTAL	51217	15838	4233	50690	29725	27543	16718	33075	59550	75850	88090	43479
MEAN	1652	528	137	1635	1025	888	557	1067	1985	2447	2842	1449
MAX	3900	1720	205	6000	2700	1430	1030	1460	2810	4430	7150	3450
MIN	642	205	101	315	355	473	387	529	1500	1520	1940	598
CFSM	10.9	3.50	.91	10.8	6.79	5.88	3.69	7.07	13.1	16.2	18.8	9.60
IN.	12.62	3.90	1.04	12.49	7.32	6.79	4.12	8.15	14.67	18.69	21.70	10.71
AC-FT	101600	31410	8400	100500	58960	54630	33160	65600	118100	150400	174700	86240

CAL YR 1983 TOTAL 524317 MEAN 1436 MAX 8720 MIN 101 CFSM 9.51 IN 129.17 AC-FT 1040000
WTR YR 1984 TOTAL 496008 MEAN 1355 MAX 7150 MIN 101 CFSM 8.97 IN 122.19 AC-FT 983800

SOUTHEAST ALASKA

15051008 SALMON CREEK ABOVE DIVERSION NEAR JUNEAU

LOCATION.--Lat 58°19'59", long 134°27'22", in NE¼NE¼ sec.9, T.41 S., R.67 E., City and Borough of Juneau, Hydrologic Unit 1906000, in Tongass National Forest, on left bank, about 0.3 mi upstream from mouth and 2.5 mi northwest of Juneau.

DRAINAGE AREA.--9.77 mi².

PERIOD OF RECORD.--June 1982 to current year.

GAGE.--Water-stage recorder. Altitude at gage is 100 ft, from topographic map.

REMARKS.--Records good, except those for January and September, which are fair. Flow regulated by Salmon Creek Reservoir 2 mi upstream.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 608 ft³/s Sept. 7, 1983, gage height, 6.38 ft, from rating curve extended above 120 ft³/s; minimum daily, 23 ft³/s Aug. 9, 1983.

EXTREMS FOR CURRENT YEAR.--Maximum discharge, 361 ft³/s Oct. 3, gage height, 5.58 ft, from rating curve extended above 120 ft³/s; minimum daily, 26 ft³/s Dec. 31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	104	83	35	70	60	52	80	75	162	96	84	125
2	113	87	35	250	110	57	75	80	219	105	102	115
3	213	86	35	150	84	56	74	75	120	98	103	110
4	138	90	35	140	150	60	75	73	100	102	104	105
5	118	74	35	180	75	57	75	72	101	82	96	100
6	118	82	35	75	50	58	74	71	91	88	107	98
7	135	79	34	50	80	63	70	74	87	118	112	96
8	103	77	31	40	56	68	70	76	81	116	112	94
9	107	72	33	33	55	68	72	75	81	128	105	92
10	104	66	34	30	53	79	65	77	85	123	121	90
11	121	67	35	60	49	85	69	76	90	108	127	88
12	118	46	34	48	46	74	71	67	96	130	120	88
13	100	45	34	38	48	67	72	69	99	155	116	88
14	85	43	34	35	49	62	74	71	150	147	107	100
15	82	42	35	33	47	59	72	75	136	138	101	140
16	79	41	34	31	49	59	69	78	108	182	97	135
17	84	40	34	30	57	58	68	77	102	158	97	150
18	133	42	34	29	58	59	60	82	102	138	98	120
19	134	41	34	28	65	71	52	81	102	132	98	105
20	161	39	34	27	78	69	60	90	102	121	136	94
21	124	38	34	28	66	58	68	78	105	102	118	90
22	142	38	34	30	59	51	74	73	116	109	103	88
23	125	38	34	30	56	66	80	73	116	109	106	87
24	120	37	34	34	53	62	79	84	114	111	134	86
25	157	37	34	40	52	59	76	94	113	115	192	86
26	125	37	34	38	51	67	73	80	124	107	150	45
27	108	37	34	60	50	65	71	74	114	102	121	30
28	77	37	34	80	50	68	71	79	100	101	112	35
29	98	36	34	52	49	74	71	82	98	105	110	48
30	93	35	30	70	---	93	72	72	96	112	120	60
31	87	---	26	90	---	86	---	69	---	106	135	---
TOTAL	3606	1612	1046	1929	1805	2030	2132	2372	3310	3644	3544	2788
MEAN	116	53.7	33.7	62.2	62.2	65.5	71.1	76.5	110	118	114	92.9
MAX	213	90	35	250	150	93	80	94	219	182	192	150
MIN	77	35	26	27	46	51	52	67	81	82	84	30
CFSM	11.9	5.50	3.45	6.37	6.37	6.70	7.28	7.83	11.3	12.1	11.7	9.51
IN.	13.73	6.14	3.98	7.34	6.87	7.73	8.12	9.03	12.60	13.87	13.49	10.61
AC-FT	7150	3200	2070	3830	3580	4030	4230	4700	6570	7230	7030	5530

CAL YR 1983 TOTAL 31490 MEAN 86.3 MAX 291 MIN 23 CFSM 8.83 IN 119.89 AC-FT 62460
WTR YR 1984 TOTAL 29818 MEAN 81.5 MAX 250 MIN 26 CFSM 8.34 IN 113.52 AC-FT 59140

NOTE.--No gage-height record Jan. 1 to Feb. 9 and after Aug. 29.

15052009 LEMON CREEK NEAR MOUTH NEAR JUNEAU

LOCATION.--Lat 58°21'57", long 134°28'41", in SW¼SW¼ sec.26, T.40 S., R.66 E., City and Borough of Juneau, Hydrologic Unit 19060000, in Tongass National Forest, on right bank 1.0 mi upstream from mouth and 5 mi northwest of Juneau.

DRAINAGE AREA.--22.9 mi^2.

PERIOD OF RECORD.--October 1982 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 50 ft, from topographic map.

REMARKS.--Records poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,510 ft^3/s Aug. 23, 1983, gage height, 16.12 ft, from rating curve extended above 1,900 ft^3/s; minimum daily, 17 ft^3/s Feb. 20 and Dec. 29, 30, 1983.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,790 ft^3/s Aug. 25, gage height, 12.94 ft; maximum gage height, 13.19 ft Dec. 18, backwater from ice; minimum daily discharge, 17 ft^3/s Dec. 29 and 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	238	89	40	45	58	39	119	142	349	366	453	320
2	203	86	40	70	59	45	95	170	400	477	426	295
3	413	93	40	50	66	45	89	190	311	478	435	300
4	225	86	40	60	90	60	120	175	302	386	449	320
5	200	91	39	50	82	58	119	160	307	388	443	315
6	180	81	38	45	70	71	88	155	308	479	445	280
7	185	76	33	38	86	108	75	170	307	490	475	260
8	161	68	27	34	85	119	71	190	300	438	550	250
9	89	63	26	31	79	122	72	220	298	798	615	240
10	110	64	25	29	72	169	70	222	308	918	760	235
11	190	63	24	31	66	177	81	225	320	724	733	230
12	238	67	24	32	58	135	88	230	328	625	538	225
13	183	63	23	31	51	125	94	241	349	672	500	220
14	147	56	22	30	44	99	96	244	488	581	419	225
15	94	55	22	29	38	80	95	263	422	544	371	280
16	73	55	21	28	36	67	93	281	317	899	344	330
17	105	56	21	27	38	63	90	278	305	712	335	460
18	243	55	20	29	41	65	89	289	300	510	365	420
19	232	50	20	31	45	102	91	285	300	456	371	385
20	228	46	20	32	52	112	102	291	319	405	594	340
21	194	44	20	32	50	76	120	279	365	377	465	230
22	203	45	19	32	46	69	150	262	428	358	350	205
23	171	44	19	31	42	124	145	268	438	384	371	180
24	158	42	19	30	39	112	120	291	419	454	726	160
25	195	41	19	28	38	108	110	298	376	502	1240	140
26	127	41	19	25	38	135	100	292	503	437	986	135
27	86	42	19	27	37	114	97	278	518	388	574	135
28	142	41	18	35	36	95	98	279	387	363	450	145
29	77	39	17	42	36	120	108	282	359	417	380	180
30	75	43	17	45	---	146	122	257	353	560	340	230
31	91	---	26	51	---	144	---	254	---	503	370	---
TOTAL	5256	1785	777	1130	1578	3104	3007	7461	10784	16089	15873	7670
MEAN	170	59.5	25.1	36.5	54.4	100	100	241	359	519	512	256
MAX	413	93	40	70	90	177	150	298	518	918	1240	460
MIN	73	39	17	25	36	39	70	142	298	358	335	135
CFSM	7.42	2.60	1.10	1.59	2.38	4.37	4.37	10.5	15.7	22.7	22.4	11.2
IN.	8.54	2.90	1.26	1.84	2.56	5.04	4.88	12.12	17.52	26.13	25.78	12.46
AC-FT	10430	3540	1540	2240	3130	6160	5960	14800	21390	31910	31480	15210

CAL YR 1983 TOTAL 69886 MEAN 191 MAX 3010 MIN 17 CFSM 8.34 IN 113.52 AC-FT 138600
WTR YR 1984 TOTAL 74514 MEAN 204 MAX 1240 MIN 17 CFSM 8.91 IN 121.04 AC-FT 147800

NOTE.--No gage-height record Jan. 8 to Feb. 23 and after Aug. 26.

SOUTHEAST ALASKA

15052500 MENDENHALL RIVER NEAR AUKE BAY

LOCATION.--Lat 58°25'47", long 134°34'22", in NW¼SE¼ sec.6, T.40 S., R.66 E., City and Borough of Juneau, Hydrologic Unit 19060000, in Tongass National Forest, at north end of Mendenhall Lake, 1.2 mi north of Mendenhall Lake outlet, 4.1 mi northeast of Auke Bay, and 7 mi upstream from mouth at Fritz Cove.

DRAINAGE AREA.--85.1 mi^2.

PERIOD OF RECORD.--May 1965 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 60 ft, from topographic map. Prior to Apr. 15, 1983 at site 1.3 mi southeast at east end of Mendenhall Lake at same datum.

REMARKS.--Records good. Streamflow is augmented and diurnal fluctuations are caused by meltage from Mendenhall Glacier that covers two-thirds of the basin.

AVERAGE DISCHARGE.--19 years, 1,117 ft^3/s, 178.25 in/yr, 809,300 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 17,000 ft^3/s Sept. 8, 1981, gage height, 10.91 ft, from rating curve extended above 7,000 ft^3/s; minimum daily, 19 ft^3/s Mar. 1-3, 1969 and Mar. 7-11, 1974.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 4,600 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
July 17	1800	4,610	6.57	Aug. 26	1700	*9,250	*8.80
Aug. 10	1245	5,690	7.17				

Minimum discharge, 24 ft^3/s Dec. 30, gage height, 0.98 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	871	268	59	34	151	56	219	267	804	1580	3340	1600
2	1030	244	59	89	162	62	205	282	1070	1720	2610	1520
3	1760	244	59	122	162	66	197	288	1070	1950	2670	1630
4	1990	251	59	142	315	72	202	276	995	1880	3080	1750
5	1490	258	56	194	322	81	205	274	998	1890	2980	1750
6	1060	241	55	177	265	84	194	291	989	2170	2990	1530
7	1000	219	51	153	330	89	185	331	1020	2340	3000	1290
8	871	194	47	142	311	104	183	398	1010	2160	2960	1270
9	518	174	44	122	244	116	184	455	994	2560	3870	1230
10	497	158	44	112	200	133	181	501	1080	3760	5220	1210
11	629	148	44	118	172	172	188	514	1140	3350	4370	1270
12	940	137	41	112	151	192	196	514	1180	2730	3910	1250
13	1090	131	41	103	146	187	200	527	1220	2720	3180	1130
14	1160	118	41	92	140	167	196	674	1450	2440	3140	1160
15	1000	112	43	86	120	160	201	717	1580	2200	2770	1500
16	773	108	40	78	110	151	199	746	1480	3470	2570	2060
17	646	103	38	70	116	144	196	718	1490	4420	2550	2540
18	805	104	37	68	124	133	193	695	1360	3870	2450	2390
19	933	104	36	70	120	140	195	703	1330	2750	2240	2010
20	1110	95	35	73	131	174	217	850	1410	2290	2900	1830
21	1090	87	34	75	131	172	239	962	1620	1880	3210	1330
22	871	86	32	73	120	158	253	890	1910	1720	2590	1090
23	646	82	30	73	104	165	260	873	2170	1790	2130	1030
24	522	76	30	68	95	187	241	908	2230	2140	2880	873
25	522	73	30	59	86	184	222	892	1970	2460	5280	751
26	512	72	29	55	73	197	211	864	2050	2380	8470	704
27	435	73	28	70	68	207	207	838	2470	2150	6490	702
28	430	73	26	87	62	202	211	832	2150	1950	3100	760
29	412	69	24	89	56	200	223	877	1900	2090	1970	992
30	369	63	24	108	---	205	244	831	1720	2560	1770	1260
31	315	---	25	148	---	213	---	709	---	3010	1860	---
TOTAL	26397	4165	1241	3062	4587	4573	6247	19497	43860	76380	102550	41412
MEAN	852	139	40.0	98.8	158	148	208	629	1462	2464	3308	1380
MAX	1990	268	59	194	330	213	260	962	2470	4420	8470	2540
MIN	315	63	24	34	56	56	181	267	804	1580	1770	702
CFSM	10.0	1.63	.47	1.16	1.86	1.74	2.44	7.39	17.2	29.0	38.9	16.2
IN.	11.54	1.82	.54	1.34	2.01	2.00	2.73	8.52	19.17	33.39	44.83	18.10
AC-FT	52360	8260	2460	6070	9100	9070	12390	38670	87000	151500	203400	82140

CAL YR 1983 TOTAL 402062 MEAN 1102 MAX 10500 MIN 24 CFSM 12.9 IN 175.75 AC-FT 797500
WTR YR 1984 TOTAL 333971 MEAN 912 MAX 8470 MIN 24 CFSM 10.7 IN 145.99 AC-FT 662400

15052800 MONTANA CREEK NEAR AUKE BAY

LOCATION.--Lat 58°23'53", long 134°36'34", in SE¼SW¼ sec.13, T.40 S., R.65 E., on right bank 30 ft upstream from highway bridge, 1.2 mi upstream from mouth at Mendenhall River, 1.5 mi northeast of Auke Bay, and 3.9 mi downstream from McGinnis Creek.

DRAINAGE AREA.--15.5 mi².

PERIOD OF RECORD.--August 1965 to September 1975, July 1983 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 75 ft, from topographic map. Prior to Sept. 30, 1975, at site 50 ft upstream at same datum.

REMARKS.--Records good except those for December and January, which are poor.

AVERAGE DISCHARGE.--11 years (water years 1966-1975, 1984), 104 ft³/s, 91.12 in/yr, 75,350 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,920 ft³/s Aug. 23, 1966 and Aug. 24, 1974; maximum gage height, 16.77 ft Aug. 23, 1966; minimum discharge, 3.2 ft³/s Feb. 8, 1972.

EXTREMES FOR CURRENT PERIOD.--July to September 1983: Peak discharges above base of 800 ft³/s and maximum (*) during period:

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Aug. 15	0715	*1,580	*14.93	Aug. 26	1415	926	13.73
Aug. 22	1245	1,030	13.94	Sept. 2	2115	1,300	14.45

Minimum daily discharge, 36 ft³/s Sept. 18.

Water year 1984: Peak discharge above base of 800 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Oct. 3	1215	1,100	14.07	July 16	2115	870	13.61
Feb. 4	1930	ice jam	*15.49	Aug. 25	1100	*1,360	14.57
July 10	0445	820	13.50				

Minimum daily discharge, 15 ft³/s Dec. 27-30.

DISCHARGE, IN CUBIC FEET PER SECOND, JULY TO SEPTEMBER 1983 MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1										88	79	76
2										86	56	720
3										83	51	436
4										82	46	588
5										77	44	205
6										66	51	114
7										66	127	80
8										68	76	64
9										95	68	54
10										233	213	48
11										195	158	44
12										140	101	46
13										90	99	40
14										72	256	80
15										65	747	68
16										58	197	54
17										58	206	41
18										62	201	36
19										200	155	37
20										95	88	314
21										70	319	157
22										176	657	207
23										83	665	296
24										69	292	323
25										62	211	134
26										64	607	91
27										63	289	68
28										62	147	58
29										61	94	52
30										73	71	67
31										100	68	---
TOTAL										2862	6439	4598
MEAN										92.3	208	153
MAX										233	747	720
MIN										58	44	36
CFSM										5.96	13.4	9.87
IN.										6.87	15.45	11.03
AC-FT										5680	12770	9120

15052800 MONTANA CREEK NEAR AUKE BAY--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	123	53	23	32	70	25	65	64	304	89	73	89
2	114	77	24	401	170	34	54	57	413	128	64	88
3	463	67	20	190	72	37	53	56	175	138	68	75
4	134	59	21	204	340	76	67	42	122	101	71	74
5	85	52	21	262	200	61	67	40	112	96	64	81
6	90	45	20	119	108	57	53	40	103	110	68	64
7	141	41	20	80	195	67	47	47	98	108	96	56
8	119	37	19	65	104	79	51	65	83	114	83	48
9	76	34	19	58	99	72	55	65	81	294	182	47
10	70	33	18	50	63	93	53	68	90	481	147	45
11	201	32	18	187	43	113	55	64	95	199	195	43
12	157	31	18	117	37	81	55	62	104	179	171	39
13	85	30	18	86	36	64	57	68	99	162	136	38
14	72	29	17	76	36	52	56	77	206	132	89	42
15	59	28	17	63	34	45	53	89	223	113	72	112
16	53	26	17	48	36	39	52	96	125	578	64	105
17	55	26	17	40	50	39	47	91	108	367	60	127
18	285	31	17	34	58	40	44	86	100	157	61	124
19	209	29	16	31	52	106	47	80	97	141	60	108
20	290	27	16	30	87	114	58	93	98	109	197	101
21	135	26	16	31	59	66	61	80	110	91	141	73
22	123	25	16	32	41	51	62	70	117	79	81	58
23	161	23	16	31	35	120	64	71	118	76	72	51
24	166	22	16	27	32	119	61	86	113	85	206	45
25	186	22	16	23	30	74	51	113	101	108	791	41
26	124	23	16	28	26	145	46	85	150	81	336	39
27	86	23	15	55	25	97	45	74	244	71	136	37
28	108	24	15	140	24	70	47	74	121	66	88	59
29	75	22	15	60	24	72	52	98	104	72	83	85
30	77	22	15	80	---	72	56	77	95	89	111	133
31	64	---	18	180	---	81	---	72	---	83	124	---
TOTAL	4188	1019	550	2860	2186	2261	1634	2250	4109	4697	4190	2127
MEAN	135	34.0	17.7	92.3	75.4	72.9	54.5	72.6	137	152	135	70.9
MAX	463	77	24	401	340	145	67	113	413	578	791	133
MIN	53	22	15	23	24	25	44	40	81	66	60	37
CFSM	8.71	2.19	1.14	5.96	4.87	4.70	3.52	4.68	8.84	9.81	8.71	4.57
IN.	10.05	2.45	1.32	6.86	5.25	5.43	3.92	5.40	9.86	11.27	10.06	5.10
AC-FT	8310	2020	1090	5670	4340	4480	3240	4460	8150	9320	8310	4220

WTR YR 1984 TOTAL 32071 MEAN 87.6 MAX 791 MIN 15 CFSM 5.65 IN 76.97 AC-FT 63610

15056100 SKAGWAY RIVER AT SKAGWAY
(National streamquality accounting network station)

LOCATION.--Lat 59°28'01", long 135°18'03", Hydrologic Unit 19060000, on left bank 800 ft downstream from highway bridge, on dike near end of 20th Street in City of Skagway, and 1 mi upstream from mouth at Taiya Inlet.

DRAINAGE AREA.--145 mi², approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1963 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 20 ft, from topographic map. Prior to Mar. 3, 1976, at site 0.85 mi downstream at different datum.

REMARKS.--Records fair except those for December and April to June, which are poor. Streamflow is augmented and large diurnal fluctuations are caused by meltage from glaciers that cover 17 percent of the basin.

AVERAGE DISCHARGE.--21 years, 560 ft³/s, 52.45 in/yr, 405,700 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,400 ft³/s Sept. 7, 1981, gage height, 19.25 ft, from rating curve extended above 2,500 ft³/s; minimum discharge, 2.9 ft³/s Mar. 22, 1983.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,260 ft³/s Aug. 9, gage height, 16.73, only peak above base of 3,000 ft³/s; minimum daily, 14 ft³/s, Dec. 20-31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	582	125	35	27	25	25	72	146	214	851	1250	386
2	522	134	42	48	30	29	63	136	341	864	1150	366
3	714	114	37	32	28	28	59	127	436	858	1440	402
4	614	105	32	31	39	31	67	141	468	894	1420	492
5	482	101	28	32	32	33	75	156	731	1200	1510	708
6	449	84	24	29	30	34	66	185	962	1480	1900	484
7	438	64	22	28	31	40	53	216	1020	1630	2150	413
8	346	48	20	28	28	50	49	248	936	1330	1720	365
9	262	40	19	27	27	44	51	265	1060	1210	2600	333
10	299	45	18	27	29	48	55	335	1340	1120	2160	323
11	428	49	18	27	27	55	66	397	1320	1030	1620	299
12	498	54	17	27	26	55	93	394	1250	1060	1680	282
13	388	61	17	26	25	48	95	384	1280	1040	1600	266
14	299	62	16	25	25	34	82	473	1250	962	961	290
15	245	63	16	25	24	40	79	599	962	928	807	366
16	224	63	16	24	25	41	78	724	837	1220	857	531
17	211	72	15	23	33	37	74	894	936	986	859	459
18	224	74	15	22	36	36	70	761	1060	740	900	401
19	320	70	15	21	32	36	74	687	1730	604	732	399
20	360	39	14	20	34	39	97	710	1980	531	812	351
21	337	27	14	19	32	40	106	710	2070	574	727	305
22	311	24	14	19	29	38	108	724	2070	712	560	279
23	271	22	14	18	29	38	92	894	2360	825	547	249
24	238	23	14	18	28	39	81	928	2160	1030	852	223
25	238	18	14	18	27	41	71	919	1840	1190	1650	197
26	234	22	14	20	26	47	72	724	1720	1080	1330	181
27	195	35	14	23	26	50	71	599	1570	1070	659	171
28	204	32	14	21	25	48	80	234	1210	980	440	167
29	214	28	14	21	25	48	103	299	1030	994	362	252
30	177	25	14	22	---	51	141	360	934	1040	347	394
31	152	---	14	24	---	80	---	314	---	1110	404	---
TOTAL	10476	1723	590	772	833	1303	2343	14683	37077	31143	36006	10334
MEAN	338	57.4	19.0	24.9	28.7	42.0	78.1	474	1236	1005	1161	344
MAX	714	134	42	48	39	80	141	928	2360	1630	2600	708
MIN	152	18	14	18	24	25	49	127	214	531	347	167
CFSM	2.33	.40	.13	.17	.20	.29	.54	3.27	8.52	6.93	8.01	2.37
IN.	2.69	.44	.15	.20	.21	.33	.60	3.77	9.51	7.99	9.24	2.65
AC-FT	20780	3420	1170	1530	1650	2580	4650	29120	73540	61770	71420	20500

CAL YR 1983 TOTAL 221254.9 MEAN 606 MAX 4660 MIN 5.7 CFSM 4.18 IN 56.76 AC-FT 438900
WTR YR 1984 TOTAL 147283.0 MEAN 402 MAX 2600 MIN 14 CFSM 2.77 IN 37.79 AC-FT 292100

15056100 SKAGWAY RIVER AT SKAGWAY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water year 1949,1966,1968-69,1972,1975 to current year.

PERIODS OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: August to October 1980 and June 1981 to January 1982 (discontinued).
WATER TEMPERATURE: April 1979 to October 1980 and June 1981 to January 1982 (discontinued).

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS) (00061)	SPECIFIC CONDUCTANCE (UMHOS) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE, AIR (DEG C) (00020)	TEMPERATURE (DEG C) (00010)	TURBIDITY (NTU) (00076)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)
NOV 14...	1030	68	59	7.6	--	.0	--	764	12.9	88	K2
JAN 29...	1245	23	105	7.5	--	.0	.80	759	14.2	98	<1
APR 15...	1800	75	84	7.5	--	6.0	.60	758	10.8	87	<1
SEP 12...	1230	270	42	7.1	18.0	6.5	5.2	--	10.7	--	K1

DATE	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	HARDNESS (MG/L AS CACO3) (00900)	HARDNESS, NONCARBONATE (MG/L CACO3) (00902)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	ALKALINITY FIELD (MG/L AS CACO3) (00410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)
NOV 14...	<1	--	--	--	--	--	--	20	--	--	--
JAN 29...	<1	34	3	11	1.6	2.2	1.4	31	6.3	2.8	.20
APR 15...	<1	31	6	10	1.4	1.3	1.4	25	5.6	1.0	.20
SEP 12...	K5	24	4	7.9	.90	.80	1.0	21	3.6	.50	.20

DATE	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	PHOSPHORUS, DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P) (00671)	ALUMINUM, DISSOLVED (UG/L AS AL) (01106)	ARSENIC DISSOLVED (UG/L AS AS) (01000)
NOV 14...	--	--	--	--	--	--	--	--	--	--	--
JAN 29...	3.3	45	48	.27	.190	<.20	.010	.010	.020	30	3
APR 15...	3.8	35	40	.28	.060	.50	.010	.010	.020	20	<1
SEP 12...	2.4	36	29	--	--	--	--	--	--	70	<1

DATE	BARIUM, DISSOLVED (UG/L AS BA) (01005)	BERYLLIUM, DISSOLVED (UG/L AS BE) (01010)	CADMIUM DISSOLVED (UG/L AS CD) (01025)	CHROMIUM, DISSOLVED (UG/L AS CR) (01030)	COBALT, DISSOLVED (UG/L AS CO) (01035)	COPPER, DISSOLVED (UG/L AS CU) (01040)	IRON, DISSOLVED (UG/L AS FE) (01046)	LEAD, DISSOLVED (UG/L AS PB) (01049)	LITHIUM DISSOLVED (UG/L AS LI) (01130)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	MERCURY DISSOLVED (UG/L AS HG) (71890)
NOV 14...	--	--	--	--	--	--	--	--	--	--	--
JAN 29...	50	<.5	1	1	<3	4	31	1	5	3	.2
APR 15...	36	1.0	1	<1	<3	1	11	2	<4	2	<.1
SEP 12...	32	<.5	<1	1	<3	15	48	9	<4	<1	<.1

K NON-IDEAL COLONY COUNT

15056100 SKAGWAY RIVER AT SKAGWAY--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
NOV										
14...	--	--	--	--	--	--	--	--	--	--
JAN										
29...	<10	2	<1	<1	81	<6	61	48	3.0	99
APR										
15...	<10	2	<1	<1	80	<6	9	--	--	--
SEP										
12...	<10	6	<1	<1	58	<6	30	--	--	--

SOUTHEAST ALASKA

15056560 KLEHINI RIVER NEAR KLUKWAN

LOCATION.--Lat 59°24'47", long 135°59'49", in NE¼SE¼ sec.26, T.28 S., R.55 E., Haines Borough, Hydrologic Unit 19060000, in Tongass National Forest, on left bank immediately upstream from bridge near mi 26.2 Haines Highway, and 3.8 mi west of Klukwan.

DRAINAGE AREA.--245 mi².

PERIOD OF RECORD.--October 1981 to current year.

GAGE.--Water-stage recorder. Datum of gage is 100.00 ft National Geodetic Vertical Datum of 1929. Prior to November 1982 at site on left bank 800 ft upstream at datum 20.72 ft higher. November 1982 to Oct. 20, 1983 at site on right bank 0.2 mi upstream.

REMARKS.--Records good, except those for Oct. 1-12 and Aug. 14 to Sept. 13, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, about 9,000 ft³/s Oct. 15, 1981; minimum, 110 ft³/s Dec. 9, 1983, gage height, 78.93 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,820 ft³/s June 20, gage height, 83.04 ft; minimum discharge, 110 ft³/s Dec. 9, gage height, 78.93 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1000	564	249	211	207	171	332	742	2050	3250	3880	1150
2	900	554	309	227	239	200	309	766	2260	3300	3860	1100
3	1300	532	312	237	217	190	328	715	2250	3220	4090	1250
4	1200	543	234	232	259	189	338	703	2150	3090	3910	1450
5	1100	530	201	222	236	190	335	747	2430	3110	3770	1600
6	1040	467	241	213	215	185	322	789	2650	3480	4210	1400
7	1000	386	221	171	203	183	313	888	2600	3170	3780	1250
8	900	365	155	175	167	187	302	1020	2490	2780	2730	1100
9	820	343	127	216	180	189	297	1140	2570	2840	3920	1020
10	880	399	179	213	170	187	301	1300	2690	2830	2600	960
11	1000	376	203	218	187	207	324	1340	2760	2570	2470	930
12	1200	396	186	215	189	219	358	1330	3040	2490	2620	890
13	1000	393	179	213	181	214	381	1330	3160	2450	3900	850
14	880	371	213	206	189	209	376	1380	3220	2110	2550	909
15	760	373	224	188	186	203	397	1530	3050	2100	2200	977
16	680	320	190	176	188	196	420	1730	2710	2560	2100	1230
17	660	363	191	154	241	194	391	2250	2590	2800	2200	1130
18	680	359	193	183	232	197	376	2100	2650	2470	2400	1030
19	700	347	214	210	209	216	390	2110	3510	2070	1900	951
20	710	273	188	202	202	219	454	2430	4100	2020	2200	895
21	740	244	166	182	193	209	529	2460	4240	2120	1950	852
22	818	317	164	183	190	200	555	2230	4040	2310	1650	815
23	738	338	201	159	186	202	480	2270	4160	2550	1450	775
24	733	318	215	149	183	202	444	2430	3040	3020	1900	742
25	748	239	212	145	175	208	429	2530	2640	3760	2400	712
26	699	305	222	165	175	209	418	2360	2880	4020	2000	690
27	662	321	204	183	173	215	416	2200	2910	4010	1700	677
28	736	299	185	201	172	218	446	2110	3010	3640	1450	691
29	733	241	156	202	171	254	527	1910	4020	3460	1250	781
30	665	214	167	204	---	357	647	1880	3650	3600	1100	866
31	608	---	196	202	---	375	---	1900	---	3680	1250	---
TOTAL	26290	11090	6297	6057	5715	6594	11935	50620	89520	90880	79390	29673
MEAN	848	370	203	195	197	213	398	1633	2984	2932	2561	989
MAX	1300	564	312	237	259	375	647	2530	4240	4020	4210	1600
MIN	608	214	127	145	167	171	297	703	2050	2020	1100	677
CFSM	3.46	1.51	.83	.80	.80	.87	1.62	6.67	12.2	12.0	10.5	4.04
IN.	3.99	1.68	.96	.92	.87	1.00	1.81	7.69	13.59	13.80	12.05	4.51
AC-FT	52150	22000	12490	12010	11340	13080	23670	100400	177600	180300	157500	58860

CAL YR 1983 TOTAL 591392 MEAN 1620 MAX 7190 MIN 127 CFSM 6.61 IN 89.79 AC-FT 1173000
WTR YR 1984 TOTAL 414061 MEAN 1131 MAX 4240 MIN 127 CFSM 4.62 IN 62.87 AC-FT 821300

15067900 UPPER MAHONEY LAKE OUTLET NEAR KETCHIKAN

LOCATION.--Lat 55°24'50", long 131°33'16", in SE¼NE¼ sec.34, T.74 S., R.91 E., Gateway Borough, Hydrologic Unit 19060000, on Revillagigedo Island, in Tongass National Forest, on right bank 300 ft upstream from lake outlet and 6 mi northeast of Ketchikan.

DRAINAGE AREA.--2.03 mi^2.

PERIOD OF RECORD.--October 1977 to current year.

REVISED RECORDS.--WDR AK-82-1: 1979 (M), 1981 (M).

GAGE.--Water-stage recorder. Altitude of gage is 1,950 ft, from topographic map.

REMARKS.--Records good except those for January through April, which are poor.

AVERAGE DISCHARGE.--7 years, 41.9 ft^3/s, 280.30 in/yr, 30,360 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 965 ft^3/s Oct. 29, 1983, gage height, 8.10 ft, from rating curve extended above 130 ft^3/s; minimum, 0.44 ft^3/s Dec. 30, 1983, gage height, 3.64 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 400 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Oct. 18	1500	449	6.80	Feb. 7	1300	443	6.81
Oct. 29	1400	*965	*8.10	June 26	1130	431	6.80

Minimum discharge, 0.44 ft^3/s Dec. 30, gage height, 3.64 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	24	3.8	132	38	15	12	64	58	125	49	104
2	30	136	3.8	260	30	13	11	58	80	74	39	95
3	73	114	3.8	80	30	11	11	49	157	61	36	55
4	64	81	3.4	176	38	10	10	44	160	61	39	60
5	32	38	2.9	80	27	9.2	11	38	105	68	39	52
6	18	21	2.6	22	150	8.8	12	39	81	84	68	30
7	66	13	2.3	9.2	317	9.5	14	44	75	68	74	28
8	76	9.6	1.8	5.2	103	11	16	67	67	60	218	15
9	30	8.2	1.7	15	33	13	19	76	56	108	212	44
10	17	7.0	2.1	31	20	20	18	67	58	160	92	97
11	12	33	2.2	21	18	30	15	61	61	126	43	47
12	10	69	2.9	12	14	24	16	65	66	142	28	25
13	8.2	34	2.9	7.9	12	19	17	74	55	77	57	13
14	7.0	24	2.5	6.2	9.6	14	18	75	75	53	82	11
15	5.7	24	2.2	5.0	11	11	20	80	82	47	42	75
16	14	107	1.7	4.8	9.2	10	25	76	101	109	28	159
17	52	93	1.4	4.4	23	16	30	81	96	67	32	89
18	302	38	1.1	3.1	27	25	26	178	68	41	40	76
19	137	24	.92	2.2	74	20	26	190	47	70	39	68
20	98	15	.80	2.0	141	16	33	159	43	55	31	32
21	153	11	.75	4.8	72	13	73	108	57	43	22	37
22	85	8.9	.65	4.2	42	15	61	80	98	43	18	36
23	35	10	.60	4.4	24	29	45	117	149	45	17	14
24	74	8.2	.56	5.0	14	25	49	196	156	46	19	9.2
25	137	7.0	.51	6.5	8.2	22	39	102	115	50	94	6.7
26	55	7.6	.60	26	7.6	15	31	65	306	55	118	5.4
27	34	7.3	.56	74	7.2	17	28	56	198	76	64	4.6
28	207	6.2	.51	46	8.8	25	27	77	171	53	34	7.0
29	639	5.7	.48	27	10	20	29	70	89	67	62	9.2
30	150	4.6	.44	54	---	16	35	60	108	168	114	8.6
31	43	---	.92	69	---	14	---	50	---	82	81	---
TOTAL	2677.9	989.3	53.40	1199.9	1318.6	516.5	777	2566	3038	2384	1931	1312.7
MEAN	86.4	33.0	1.72	38.7	45.5	16.7	25.9	82.8	101	76.9	62.3	43.8
MAX	639	136	3.8	260	317	30	73	196	306	168	218	159
MIN	5.7	4.6	.44	2.0	7.2	8.8	10	38	43	41	17	4.6
CFSM	42.6	16.3	.85	19.1	22.4	8.23	12.8	40.8	49.8	37.9	30.7	21.6
IN.	49.05	18.12	.98	21.98	24.15	9.46	14.23	47.00	55.64	43.67	35.37	24.04
AC-FT	5310	1960	106	2380	2620	1020	1540	5090	6030	4730	3830	2600

CAL YR 1983 TOTAL 16271.50 MEAN 44.6 MAX 639 MIN .44 CFSM 22.0 IN 298.03 AC-FT 32270
WTR YR 1984 TOTAL 18764.30 MEAN 51.3 MAX 639 MIN .44 CFSM 25.3 IN 343.69 AC-FT 37220

15072000 FISH CREEK NEAR KETCHIKAN

LOCATION.--Lat 55°23'31", long 131°11'38", in SW¼SW¼ sec.6, T.75 S., R.94 E., Gateway Borough, Hydrologic Unit 19060000, on Revillagigedo Island, in Tongass National Forest, on right bank 250 ft upstream from outlet of Low Lake, 750 ft upstream from mouth at Thorne Arm, and 18 mi east of Ketchikan.

DRAINAGE AREA.--32.1 mi², excludes that of Granite Lake drainage basin.

PERIOD OF RECORD.--May 1915 to October 1936, October 1938 to current year. Prior to October 1945, monthly discharge only. Prior to January 1921, published as "near Sea Level, Revillagigedo Island."

REVISED RECORDS.--WSP 1372: 1918.

GAGE.--Water-stage recorder. Altitude of gage is 20 ft, by barometer. Prior to October 1935, at site 50 ft downstream at different datum. October 1935 to Oct. 3, 1975, at prior site and present datum.

REMARKS.--Records good.

AVERAGE DISCHARGE.--66 years, 421 ft³/s, 178.11 in/yr, 305,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,400 ft³/s Oct. 15, 1961, gage height, 8.85 ft, site then in use, from rating curve extended above 3,600 ft³/s; minimum daily, 20 ft³/s Sept. 9 and 10, 1928.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2600 ft³/s, Jan. 5, gage height, 3.75 ft, only peak above base of 2,200 ft³/s; minimum, 64 ft³/s Dec. 30 and 31, gage height, 0.74 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	246	714	123	275	628	273	462	198	312	538	353	904
2	229	595	116	581	642	297	369	215	364	487	288	861
3	283	682	112	1260	593	283	312	220	489	414	237	635
4	426	887	109	1660	538	273	288	216	676	348	204	499
5	525	805	102	2370	450	278	284	201	671	327	177	414
6	456	581	94	1410	512	273	256	183	563	380	216	332
7	480	424	87	805	1240	283	224	176	458	386	246	269
8	672	320	79	523	1500	302	223	186	392	359	327	220
9	545	254	77	508	942	312	218	216	359	353	684	204
10	397	208	75	502	600	317	215	236	322	552	904	259
11	297	242	71	478	506	369	204	236	297	657	702	292
12	246	336	91	421	468	438	200	229	273	876	487	273
13	200	360	96	336	538	397	234	230	255	904	359	233
14	169	318	94	266	450	327	266	236	250	664	288	192
15	148	276	89	217	392	273	278	237	278	474	242	177
16	132	280	82	181	348	246	338	243	456	456	200	365
17	128	322	77	151	392	264	341	256	694	426	180	912
18	294	332	75	125	397	474	295	295	642	359	177	1370
19	745	323	77	110	706	763	256	427	499	403	169	1190
20	1870	276	78	104	1070	740	239	647	386	450	166	807
21	1770	230	76	116	1030	538	335	722	322	392	155	572
22	1430	195	75	169	679	566	528	587	292	317	141	468
23	982	200	74	233	493	771	570	478	338	259	128	359
24	966	182	71	312	375	740	477	681	426	220	113	278
25	1500	160	70	375	297	887	377	882	506	196	233	224
26	1280	160	71	525	246	779	306	673	672	177	626	180
27	857	159	71	686	250	621	256	496	887	184	748	155
28	947	157	71	724	233	565	225	427	956	196	586	141
29	1560	148	68	579	250	614	203	440	779	196	462	132
30	1980	136	65	558	---	679	191	397	593	255	572	132
31	1190	---	70	635	---	565	---	346	---	369	795	---
TOTAL	22950	10262	2586	17195	16765	14507	8970	11212	14407	12574	11165	13049
MEAN	740	342	83.4	555	578	468	299	362	480	406	360	435
MAX	1980	887	123	2370	1500	887	570	882	956	904	904	1370
MIN	128	136	65	104	233	246	191	176	250	177	113	132
CFSM	23.1	10.7	2.60	17.3	18.0	14.6	9.32	11.3	15.0	12.6	11.2	13.6
IN.	26.60	11.89	3.00	19.93	19.43	16.81	10.39	12.99	16.70	14.57	12.94	15.12
AC-FT	45520	20350	5130	34110	33250	28770	17790	22240	28580	24940	22150	25880

CAL YR 1983 TOTAL 137638 MEAN 377 MAX 2080 MIN 65 CFSM 11.7 IN 159.50 AC-FT 273000
WTR YR 1984 TOTAL 155642 MEAN 425 MAX 2370 MIN 65 CFSM 13.2 IN 180.36 AC-FT 308700

15081580 BLACK BEAR LAKE OUTLET NEAR KLAWOCK

LOCATION.--Lat 55°33'25", long 132°52'33", in SW¼NE¼ sec.12, T.73 S., R.82 E., Hydrologic Unit 19060000, on Prince of Wales Island, in Tongass National Forest, on left bank at outlet of Black Bear Lake 8.6 mi east of Klawock.

DRAINAGE AREA.--1.82 mi^2.

PERIOD OF RECORD.--June 1980 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 1,700 ft, from topographic map.

REMARKS.--Records good.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 413 ft^3/s Nov. 5, 1981, gage height, 7.13 ft, from rating curve extended above 100 ft^3/s; minimum, 2.2 ft^3/s Feb. 12, 1981 and Apr. 7-9, 1982; minimum gage height, 4.02 ft Dec. 29 and 30, 1983.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 237 ft^3/s Jan. 27, gage height, 6.18 ft; from rating curve extended above 100 ft^3/s; minimum, 3.0 ft^3/s Dec. 29 and 30, gage height, 4.02 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	23	7.4	35	39	16	22	20	27	38	30	31
2	21	35	8.3	128	34	14	17	21	41	34	23	31
3	48	33	8.3	82	30	13	16	17	74	31	18	23
4	78	30	7.1	168	28	13	16	15	106	34	17	21
5	57	23	6.2	130	23	15	14	13	78	38	16	19
6	34	18	5.8	53	46	16	12	13	49	31	17	16
7	25	14	5.1	27	109	17	14	15	40	27	16	13
8	23	12	4.7	19	65	20	15	22	36	24	31	11
9	19	9.9	5.1	24	35	26	18	26	33	31	71	14
10	16	8.6	6.5	29	23	42	18	27	33	49	71	19
11	17	12	6.8	27	20	51	15	25	35	38	41	18
12	18	23	6.5	20	18	37	15	26	37	42	25	15
13	15	23	6.2	16	16	25	16	30	34	38	21	12
14	12	22	5.8	13	15	19	14	33	46	33	25	14
15	12	20	6.0	11	15	15	15	36	60	30	21	26
16	17	22	5.5	9.3	13	14	16	32	64	53	16	33
17	28	23	5.3	8.0	15	14	14	28	52	47	14	46
18	88	21	4.9	7.4	17	22	11	46	38	35	13	67
19	104	19	4.7	7.4	35	31	11	63	31	27	13	43
20	88	15	4.3	7.4	63	25	14	94	27	21	14	25
21	84	12	4.2	8.0	44	18	32	67	25	18	14	19
22	87	11	3.8	13	29	28	30	45	32	17	12	15
23	53	11	3.6	25	21	50	28	49	40	16	11	12
24	77	9.0	3.6	35	15	40	20	93	49	16	18	9.6
25	149	8.0	3.4	46	13	46	15	74	60	17	109	7.7
26	70	9.0	3.1	90	12	45	12	46	66	17	167	6.2
27	42	10	3.1	209	12	31	11	37	61	16	91	5.5
28	65	9.9	3.1	97	12	38	11	35	58	15	42	13
29	68	8.6	3.1	50	14	37	11	33	43	15	29	19
30	52	7.7	3.0	58	---	39	15	26	33	20	30	15
31	30	---	3.8	56	---	31	---	23	---	22	28	---
TOTAL	1516	502.7	158.3	1508.5	831	848	488	1130	1408	890	1064	619.0
MEAN	48.9	16.8	5.11	48.7	28.7	27.4	16.3	36.5	46.9	28.7	34.3	20.6
MAX	149	35	8.3	209	109	51	32	94	106	53	167	67
MIN	12	7.7	3.0	7.4	12	13	11	13	25	15	11	5.5
CFSM	26.9	9.23	2.81	26.8	15.8	15.1	8.96	20.1	25.8	15.8	18.8	11.3
IN.	30.97	10.27	3.23	30.82	16.98	17.32	9.97	23.08	28.76	18.18	21.74	12.65
AC-FT	3010	997	314	2990	1650	1680	968	2240	2790	1770	2110	1230

CAL YR 1983 TOTAL 9776.7 MEAN 26.8 MAX 151 MIN 3.0 CFSM 14.7 IN 199.72 AC-FT 19390
WTR YR 1984 TOTAL 10963.5 MEAN 30.0 MAX 209 MIN 3.0 CFSM 16.5 IN 223.97 AC-FT 21750

15081995 REYNOLDS CREEK BELOW LAKE MELLEN NEAR HYDABURG

LOCATION.--Lat 55°13'04", long 132°35'00", in SW¼SE¼ sec.3. T.77 S., R.84 E., Hydrologic Unit 19060000. on Prince of Wales Island, in Tongass National Forest, 0.1 mi below Lake Mellen and approximately 1 mi upstream from mouth at Copper Harbor in Hetta Inlet and 10 mi east of Hydaburg.

DRAINAGE AREA.--5.20 mi^2.

PERIOD OF RECORD.--July 1982 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 860 ft, from topographic map. Prior to Jan. 1, 1984 at datum 2.00 ft higher.

REMARKS.--Records fair, except those above 150 ft^3/s, which are poor. Streamflow affected by storage in lakes, which cover 30 percent of the basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 351 ft^3/s Aug. 28, 1983, gage height, 5.09 ft, datum then in use, 7.09 ft, present datum, from rating curve extended above 100 ft^3/s; minimum discharge, 14 ft^3/s Aug. 26, 1982 and Dec. 29 and 30, 1983; minimum gage height, 0.74 ft Dec. 29 and 30, 1983, datum then in use.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 229 ft^3/s Oct. 18, gage height, 4.34 ft, datum then in use, 6.34 ft, present datum, from rating curve extended above 130 ft^3/s; maximum gage height, 6.37 ft Jan. 26; minimum discharge, 14 ft^3/s Dec. 29 and 30, gage height, 0.74 ft, datum then in use.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	42	94	28	66	127	97	116	70	82	89	37	66
2	41	102	29	142	125	82	103	63	88	76	34	62
3	51	93	28	100	118	70	105	55	99	68	32	62
4	75	91	27	151	108	84	103	51	126	71	31	70
5	64	89	26	155	92	83	92	49	113	71	30	67
6	50	75	24	110	100	72	81	48	94	62	34	54
7	47	64	23	89	158	69	99	47	84	56	33	48
8	52	56	23	78	129	66	104	50	76	52	46	43
9	46	52	22	91	106	64	105	51	70	53	96	53
10	40	47	24	94	93	78	118	50	65	57	86	78
11	39	56	24	86	108	87	98	47	62	57	60	60
12	36	72	26	73	105	74	97	47	59	70	48	48
13	33	73	25	63	99	64	91	48	56	59	49	42
14	31	66	23	56	90	58	81	48	60	52	52	45
15	29	62	22	51	96	53	78	46	66	47	45	79
16	33	63	21	46	82	52	77	44	89	56	40	85
17	39	60	20	42	111	58	70	44	81	50	38	97
18	153	57	20	39	105	102	63	65	70	45	37	118
19	121	57	19	38	152	127	59	78	62	42	36	96
20	112	49	18	38	170	95	65	100	56	40	35	75
21	120	43	17	44	130	74	109	104	52	38	34	70
22	124	40	17	72	109	110	101	95	51	36	32	61
23	99	43	17	101	95	144	99	125	57	34	32	54
24	162	43	16	87	82	123	81	162	59	34	34	48
25	174	36	16	92	74	177	73	138	60	33	85	44
26	132	40	15	149	69	152	67	117	97	32	110	40
27	121	44	15	186	72	126	61	103	99	31	74	37
28	169	40	15	138	98	156	57	106	101	30	55	47
29	171	33	14	116	91	139	55	101	82	30	53	50
30	138	30	14	145	---	159	57	92	79	35	79	41
31	108	---	15	142	---	141	---	86	---	34	73	---
TOTAL	2652	1770	643	2880	3094	3036	2565	2330	2295	1540	1560	1840
MEAN	85.5	59.0	20.7	92.9	107	97.9	85.5	75.2	76.5	49.7	50.3	61.3
MAX	174	102	29	186	170	177	118	162	126	89	110	118
MIN	29	30	14	38	69	52	55	44	51	30	30	37
CFSM	16.4	11.3	3.98	17.9	20.6	18.8	16.4	14.5	14.7	9.56	9.67	11.8
IN.	18.97	12.66	4.60	20.60	22.13	21.71	18.35	16.67	16.41	11.01	11.16	13.16
AC-FT	5260	3510	1280	5710	6140	6020	5090	4620	4550	3050	3090	3650

CAL YR 1983 TOTAL 21357 MEAN 58.5 MAX 255 MIN 14 CFSM 11.3 IN 152.76 AC-FT 42360
WTR YR 1984 TOTAL 26205 MEAN 71.6 MAX 186 MIN 14 CFSM 13.8 IN 187.43 AC-FT 51980

15083500 PERKINS CREEK NEAR METLAKATLA

LOCATION.--Lat 54°56'48", long 132°10'15", in NW¼SW¼ sec.9, T.80 S., R.88 E., Hydrologic Unit 19060000, on Prince of Wales Island, in Tongass National Forest, on right bank 1,000 ft upstream from mouth at South Arm of Moria Sound, 27 mi southwest of Metlakatla, and 35 mi southwest of Ketchikan.

DRAINAGE AREA.--3.38 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1976 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 18 ft, from topographic map.

REMARKS.--Records good except those above 150 ft³/s, which are fair.

AVERAGE DISCHARGE.--8 years, 34.6 ft³/s, 139.01 in/yr, 25,070 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,030 ft³/s Aug. 27, 1983, gage height, 4.97 ft, from rating curve extended above 80 ft³/s; minimum daily, 1.2 ft³/s Aug. 27, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 828 ft³/s Oct. 18, gage height, 4.60 ft, from rating curve extended above 80 ft³/s; minimum recorded 3.2 ft³/s May 16 and 17, gage height, 1.00 ft, but discharge may have been less during period of ice effect Dec. 23 to Jan. 1.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	73	9.3	234	39	53	14	32	7.3	25	26	26
2	30	74	59	85	57	26	19	13	13	12	9.1	61
3	63	67	24	68	51	22	62	8.2	139	9.0	7.4	41
4	58	22	16	114	19	100	58	17	146	18	5.8	101
5	20	44	12	50	13	39	22	10	28	14	4.5	28
6	12	22	8.4	14	58	20	27	7.1	12	18	11	13
7	23	12	7.3	10	85	18	167	6.1	8.8	10	56	11
8	80	9.3	6.1	51	22	15	140	7.0	6.9	7.8	140	9.7
9	15	27	8.9	169	14	14	109	5.8	6.0	28	73	42
10	10	23	68	28	37	64	49	5.0	5.3	31	23	59
11	9.2	137	39	22	111	31	47	4.3	6.5	34	12	18
12	8.0	70	50	13	114	14	40	3.9	5.5	24	8.7	11
13	7.0	48	30	9.3	66	9.8	43	4.6	4.6	12	85	8.8
14	6.0	52	13	7.5	71	8.0	34	4.0	6.7	11	41	42
15	5.8	43	10	6.5	66	6.9	34	3.7	8.1	9.3	12	81
16	26	54	7.8	5.9	24	106	25	3.3	43	32	8.7	72
17	37	26	6.5	5.0	101	83	19	5.7	30	9.8	9.1	37
18	292	18	5.5	4.8	55	137	13	56	13	7.7	16	34
19	28	36	5.0	8.8	138	90	12	88	8.0	48	12	25
20	54	15	4.6	28	70	22	43	65	6.0	14	8.7	16
21	138	9.8	4.3	90	23	13	49	48	5.0	8.1	6.7	22
22	40	52	4.0	112	40	142	117	26	25	6.2	5.6	13
23	28	105	3.9	75	25	38	59	136	49	5.3	9.2	10
24	210	25	3.8	100	18	107	22	72	39	4.7	7.6	8.7
25	48	14	3.7	39	22	142	17	17	43	4.4	65	7.7
26	36	98	3.7	250	75	34	13	10	100	4.2	24	6.9
27	80	27	3.6	56	86	130	10	7.6	200	3.9	10	6.6
28	91	15	3.5	22	127	112	8.9	41	26	3.8	7.6	63
29	123	11	3.5	25	153	42	7.3	13	18	3.7	30	20
30	28	8.3	4.4	95	---	73	39	8.4	53	11	19	19
31	16	---	25	86	---	28	---	7.2	---	7.7	64	---
TOTAL	1635.0	1237.4	453.8	1883.8	1780	1739.7	1319.2	735.9	1061.7	437.6	817.7	913.4
MEAN	52.7	41.2	14.6	60.8	61.4	56.1	44.0	23.7	35.4	14.1	26.4	30.4
MAX	292	137	68	250	153	142	167	136	200	48	140	101
MIN	5.8	8.3	3.5	4.8	13	6.9	7.3	3.3	4.6	3.7	4.5	6.6
CFSM	15.6	12.2	4.32	18.0	18.2	16.6	13.0	7.01	10.5	4.17	7.81	8.99
IN.	17.99	13.61	4.99	20.73	19.58	19.14	14.51	8.10	11.68	4.81	9.00	10.05
AC-FT	3240	2450	900	3740	3530	3450	2620	1460	2110	868	1620	1810

CAL YR 1983 TOTAL 12635.9 MEAN 34.6 MAX 292 MIN 3.0 CFSM 10.2 IN 139.03 AC-FT 25060
WTR YR 1984 TOTAL 14015.2 MEAN 38.3 MAX 292 MIN 3.3 CFSM 11.3 IN 154.20 AC-FT 27800

BEST COPY AVAILABLE

SOUTHEAST ALASKA

15083500 PERKINS CREEK NEAR METLAKATLA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1976 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: August 1976 to August 1979 and February 1980 to July 1981, November 1981 to January 1982, and September 1982 to current year.

INSTRUMENTATION.--Temperature recorder since Aug. 6, 1976.

REMARKS.--Records good. Periods of no record are due to equipment malfunction.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum recorded, 18.0°C Aug. 14, 15, and 20, 1977; minimum recorded, 0.0°C on many days during winter periods, in most years.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum recorded, 15.0°C July 25; minimum recorded, 0.0°C Dec. 31.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	9.0	8.5	6.5	5.5	2.5	1.5	2.5	.5	4.5	4.0	3.5	3.0
2	9.0	8.5	7.0	6.5	2.5	2.0	2.5	2.5	4.5	3.5	3.5	3.0
3	9.5	9.0	7.0	6.5	2.5	2.0	3.5	2.5	4.5	3.5	4.0	3.5
4	9.5	9.0	6.5	6.0	3.0	2.5	3.5	3.5	5.0	4.5	4.0	3.5
5	9.0	8.5	5.5	5.0	2.5	2.0	3.5	2.5	5.0	4.5	4.5	4.0
6	8.5	7.0	5.5	5.0	2.0	1.0	2.5	1.5	5.5	5.0	6.0	4.0
7	8.5	7.5	4.5	3.5	2.0	1.0	2.0	1.0	6.0	4.5	5.0	4.5
8	8.5	8.0	4.5	3.5	1.5	1.0	2.5	2.0	4.5	3.5	5.5	5.0
9	8.0	7.0	5.0	4.5	1.5	1.0	3.5	2.5	3.5	3.0	---	---
10	7.5	6.5	5.0	5.0	2.0	1.0	3.5	3.5	3.0	2.5	---	---
11	8.0	7.0	6.0	5.0	2.5	2.0	4.0	3.0	3.5	2.5	---	---
12	8.0	7.5	6.0	5.5	2.5	2.0	3.0	2.5	3.5	3.0	---	---
13	8.0	6.5	6.0	6.0	2.5	2.5	3.0	2.0	3.5	3.5	---	---
14	6.5	6.0	6.5	5.5	2.5	2.5	2.0	1.5	3.5	3.0	---	---
15	6.0	5.5	6.0	5.5	2.5	1.5	2.0	1.5	3.5	3.0	---	---
16	7.0	6.0	6.5	6.0	1.5	1.0	2.5	2.0	4.0	3.0	---	---
17	8.0	7.0	6.5	6.0	1.5	.5	2.0	2.0	4.5	4.0	---	---
18	8.5	8.0	5.5	5.5	1.0	1.0	2.5	2.0	4.5	3.5	---	---
19	8.5	8.0	5.5	4.5	1.0	.5	2.5	2.0	5.5	4.5	---	---
20	8.0	7.5	4.5	3.0	1.0	.5	2.5	2.0	5.5	4.0	---	---
21	8.5	8.0	3.5	2.5	1.0	1.0	2.5	2.0	4.0	3.5	---	---
22	8.0	6.5	3.5	3.0	1.0	1.0	3.5	2.5	---	---	---	---
23	6.5	5.0	4.0	3.5	1.0	1.0	3.5	3.0	---	---	---	---
24	7.5	6.5	4.0	3.0	1.0	1.0	4.0	3.0	3.0	2.5	---	---
25	7.5	6.5	3.0	2.5	1.0	1.0	4.0	3.0	3.0	2.5	---	---
26	6.5	5.5	4.5	3.0	1.0	1.0	5.5	3.5	2.5	2.0	---	---
27	6.5	5.0	4.5	4.0	1.0	.5	5.5	5.0	2.5	2.0	---	---
28	7.5	6.5	4.0	3.0	1.0	.5	4.5	3.5	3.5	2.5	---	---
29	8.0	7.0	3.0	2.0	1.0	1.0	4.0	3.0	3.0	3.0	---	---
30	7.5	6.0	2.0	1.5	1.0	1.0	5.0	4.0	---	---	---	---
31	6.0	5.0	---	---	1.0	.0	5.0	4.5	---	---	---	---
MONTH	9.5	5.0	7.0	1.5	3.0	.0	5.5	.5	6.0	2.0		

15083500 PERKINS CREEK NEAR METLAKATLA--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1					---	---	10.5	9.5	13.5	12.0	11.0	10.0
2					---	---	10.0	9.5	13.5	11.5	10.5	10.0
3					---	---	10.5	9.5	13.5	12.0	10.5	10.0
4					---	---	11.0	10.0	14.0	12.0	10.5	10.5
5					---	---	11.0	10.0	13.0	12.0	11.0	10.0
6					---	---	10.5	10.0	13.0	12.5	10.5	9.5
7					10.0	8.5	11.0	10.5	13.0	12.0	10.5	10.5
8					9.5	8.5	11.0	10.5	12.5	12.0	10.0	9.0
9					10.0	8.0	10.5	10.5	12.5	11.5	11.0	10.0
10					10.0	8.5	11.0	10.0	13.0	11.5	11.0	10.5
11					10.5	9.5	11.0	10.5	12.5	11.0	10.5	9.5
12					10.5	9.0	11.0	10.5	12.5	11.5	10.0	9.5
13					10.5	9.5	11.5	10.5	12.5	12.0	10.5	9.5
14					10.5	9.5	11.0	10.5	13.0	12.0	10.5	10.5
15					10.0	9.5	11.5	10.0	13.0	12.0	10.5	10.5
16					10.0	9.0	12.5	11.0	13.0	11.5	11.0	10.5
17					10.0	9.0	12.0	11.0	13.0	12.0	11.0	10.5
18					10.0	9.5	12.0	10.5	12.5	12.0	10.5	10.0
19					9.5	9.0	11.5	10.5	13.0	12.0	10.5	10.0
20					10.5	9.0	12.0	10.0	12.5	12.0	10.5	9.0
21					11.5	10.0	12.0	10.5	13.0	11.5	9.5	9.5
22					11.0	10.0	13.0	10.0	13.5	11.5	9.5	8.5
23					11.0	10.0	13.0	11.0	13.0	12.0	9.0	8.0
24					11.5	10.0	14.0	11.5	13.0	12.0	8.5	7.5
25					11.0	10.5	15.0	11.5	13.5	12.5	8.0	7.0
26					10.5	10.0	13.5	12.5	13.0	11.5	8.5	7.0
27					10.0	9.0	13.5	12.0	11.5	10.0	9.0	7.5
28					9.5	8.5	14.0	11.5	11.0	10.0	9.5	8.5
29					10.0	8.5	13.5	12.5	11.0	10.0	9.5	8.5
30					10.0	9.5	13.5	12.5	11.0	10.5	9.5	9.0
31					---	---	13.0	12.5	11.5	10.5	---	---
MONTH					11.5	8.0	15.0	9.5	14.0	10.0	11.0	7.0
YEAR	15.0	.0										

15085100 OLD TOM CREEK NEAR KASAAN

LOCATION.--Lat 55°23'44", long 132°24'25", in NW¼SW¼ sec.6, T.75 S., R.86 E., Hydrologic Unit 19060000, on Prince of Wales Island, in Tongass National Forest, on left bank 1,000 ft upstream from mouth at Skowl Arm of Kasaan Bay, 0.4 mi downstream from unnamed tributary, and 10 mi south of Kasaan.

DRAINAGE AREA.--5.90 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1949 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 10 ft, from topographic map.

REMARKS.--Records good except those above 200 ft³/s, which are fair.

AVERAGE DISCHARGE.--35 years, 39.2 ft³/s, 90.23 in/yr, 28,400 acre-ft/year.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,110 ft³/s Nov. 21, 1979, gage height, 6.14 ft, from rating curve extended above 140 ft³/s; minimum recorded, 0.16 ft³/s Nov. 15, 1965, gage height, 1.10 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 450 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Oct. 18	1245	*720	*4.77	Feb. 19	0900	490	4.09
Oct. 24	0700	604	4.44	Mar. 22	1900	515	4.17
Jan. 1	1615	598	4.42	Mar. 25	0100	506	4.14
Feb. 17	0900	525	4.20				

Minimum daily discharge, 5.4 ft³/s Dec. 28 and 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.5	32	9.5	256	66	162	50	29	15	33	14	22
2	8.7	79	9.3	210	75	73	36	23	14	24	11	37
3	9.4	75	9.4	99	54	42	45	17	36	18	9.4	35
4	21	63	8.9	333	38	82	43	17	123	25	9.3	92
5	12	61	8.4	125	25	69	29	16	65	29	8.5	73
6	8.9	39	7.9	46	66	42	23	17	37	22	14	38
7	8.2	26	7.6	27	179	43	163	15	28	17	12	28
8	34	19	6.8	21	62	39	169	27	23	15	64	23
9	15	16	6.7	118	34	39	238	25	19	13	83	27
10	10	18	6.9	61	23	75	143	20	16	13	42	55
11	8.8	68	7.5	35	48	51	76	17	16	13	26	33
12	7.8	80	9.8	23	141	32	76	16	17	13	18	28
13	7.1	89	12	17	100	22	49	16	15	13	27	30
14	6.6	87	10	14	89	16	67	16	15	12	46	39
15	6.2	60	9.1	12	173	14	50	16	15	11	23	116
16	11	63	8.2	10	59	29	40	15	16	15	16	81
17	14	39	7.4	9.4	251	99	49	16	15	13	14	152
18	329	32	7.1	9.1	138	215	35	48	14	11	15	159
19	121	26	6.8	7.9	293	209	31	68	12	11	15	75
20	157	19	6.6	7.9	156	63	128	82	12	10	13	46
21	197	15	6.4	13	63	34	242	101	12	9.7	11	41
22	119	14	6.2	41	40	266	145	57	11	9.1	9.9	31
23	67	17	6.0	80	31	141	96	201	14	8.6	10	26
24	383	16	5.8	105	23	144	49	133	16	8.5	10	18
25	144	13	5.7	63	18	316	32	60	20	8.0	28	12
26	67	17	5.6	183	32	92	24	38	64	7.6	35	11
27	107	15	5.5	118	94	80	21	28	98	7.4	23	10
28	190	13	5.4	49	194	265	19	33	79	7.4	16	14
29	162	11	5.4	40	183	118	17	27	45	7.2	17	15
30	70	10	5.8	107	---	293	25	21	34	8.3	29	12
31	39	---	7.0	92	---	116	---	18	---	8.3	23	---
TOTAL	2349.2	1132	230.7	2332.3	2748	3281	2210	1233	916	421.1	692.1	1379
MEAN	75.8	37.7	7.44	75.2	94.8	106	73.7	39.8	30.5	13.6	22.3	46.0
MAX	383	89	12	333	293	316	242	201	123	33	83	159
MIN	6.2	10	5.4	7.9	18	14	17	15	11	7.2	8.5	10
CFSM	12.8	6.39	1.26	12.7	16.1	18.0	12.5	6.75	5.17	2.31	3.78	7.60
IN.	14.81	7.14	1.45	14.70	17.32	20.68	13.93	7.77	5.77	2.65	4.36	8.69
AC-FT	4660	2250	458	4630	5450	6510	4380	2450	1820	835	1370	2740

CAL YR 1983 TOTAL 13935.1 MEAN 38.2 MAX 383 MIN 5.0 CFSM 6.48 IN 87.85 AC-FT 27640
WTR YR 1984 TOTAL 18924.4 MEAN 51.7 MAX 383 MIN 5.4 CFSM 8.76 IN 119.30 AC-FT 37540

15085100 OLD TOM CREEK NEAR KASAAN--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1956, 1959, and 1965 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: October 1964, April 1965 to February 1975, June 1975 to April 1978, and November 1978 to current year.

INSTRUMENTATION.--Temperature recorder since Oct. 1964.

REMARKS.--Records good.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum recorded, 17.5°C Aug. 12, 14-18, 1977; minimum recorded, 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum recorded, 15.5°C July 25; minimum recorded, 0.0°C Dec. 18-Jan. 1.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	9.5	8.5	6.0	5.5	2.0	1.5	1.5	.0	3.0	2.5	3.0	2.5
2	9.5	9.0	7.0	6.0	2.0	2.0	2.0	1.5	3.0	2.5	3.0	2.5
3	9.5	9.0	6.5	6.0	2.5	2.0	2.5	1.5	3.0	2.5	3.5	3.0
4	9.5	9.0	6.0	5.5	2.5	2.0	2.5	2.0	3.0	3.0	3.0	3.0
5	9.0	8.0	5.5	5.0	2.0	1.5	2.5	1.5	3.5	3.0	3.5	3.0
6	8.5	7.0	5.5	5.0	1.5	1.0	1.5	1.0	4.0	3.5	4.0	3.0
7	9.0	8.0	5.0	4.0	1.5	.5	1.5	1.0	4.0	2.5	4.0	3.5
8	8.5	8.0	4.5	4.0	.5	.5	2.0	1.5	2.5	2.0	4.0	3.5
9	8.5	8.0	5.0	4.5	1.0	.5	2.5	2.0	2.5	2.0	4.0	3.0
10	8.0	7.0	5.0	4.5	1.5	1.0	2.5	2.5	2.0	1.5	4.5	4.0
11	8.5	7.5	5.5	5.0	2.0	1.5	2.5	2.0	2.0	1.0	4.0	3.0
12	8.5	8.0	5.5	5.5	2.0	2.0	2.0	2.0	2.5	2.0	3.5	3.0
13	8.5	7.5	5.5	5.5	2.0	2.0	2.0	1.5	3.0	2.0	4.0	2.5
14	7.5	6.5	5.5	5.0	2.0	2.0	1.5	1.0	2.5	2.0	3.5	2.5
15	6.5	6.0	5.5	5.0	1.5	1.5	1.5	1.5	3.0	2.0	3.0	2.0
16	7.0	6.5	6.0	5.0	1.5	.5	2.0	1.0	3.0	2.5	3.5	2.5
17	8.0	7.0	6.0	5.5	.5	.5	1.5	1.0	3.0	2.5	4.0	3.5
18	8.5	8.0	5.5	5.0	.5	.0	1.5	1.0	3.0	2.5	4.0	3.5
19	8.5	8.0	5.0	4.5	.0	.0	1.5	1.5	3.5	3.0	4.5	3.5
20	8.5	7.5	4.5	3.0	.0	.0	2.0	1.5	3.0	2.5	4.5	4.0
21	8.0	7.5	3.0	2.5	.0	.0	2.0	1.5	2.5	2.0	4.0	3.0
22	8.0	7.5	3.5	2.5	.0	.0	2.5	2.0	2.5	2.0	4.5	4.0
23	7.5	6.5	4.0	3.5	.0	.0	2.5	2.0	2.5	1.5	5.0	4.0
24	7.0	6.0	4.0	3.0	.0	.0	2.5	2.0	2.0	2.0	4.5	3.5
25	7.0	7.0	3.0	2.5	.0	.0	2.5	1.5	2.5	2.0	4.0	3.5
26	7.0	6.0	3.5	3.0	.0	.0	3.0	1.5	2.5	2.0	4.5	4.0
27	6.0	5.5	4.0	3.5	.0	.0	3.0	2.5	3.0	2.5	4.0	3.5
28	7.0	6.5	4.0	3.5	.0	.0	2.5	2.0	3.0	2.5	4.5	3.5
29	7.0	7.0	3.5	2.0	.0	.0	2.5	2.0	3.0	2.5	4.0	4.0
30	6.5	6.0	2.0	1.5	.0	.0	3.0	2.5	---	---	4.0	3.5
31	6.0	5.5	---	---	.0	.0	3.0	2.5	---	---	4.5	3.5
MONTH	9.5	5.5	7.0	1.5	2.5	.0	3.0	.0	4.0	1.0	5.0	2.0

SOUTHEAST ALASKA

15085100 OLD TOM CREEK NEAR KASAAN--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	4.5	3.5	5.5	4.5	8.0	7.5	10.5	10.0	12.5	11.5	11.0	10.0
2	4.5	3.5	6.0	4.0	8.5	7.5	10.5	10.0	13.5	11.0	10.5	10.5
3	4.5	4.0	5.5	3.5	8.0	7.5	11.0	10.0	13.0	12.0	11.0	10.5
4	5.0	3.5	6.5	4.0	8.0	7.5	11.0	10.5	14.0	12.0	10.5	10.5
5	4.5	3.0	6.0	4.0	9.0	8.0	11.0	10.0	13.0	12.5	11.0	10.0
6	4.0	3.0	6.0	4.0	10.0	7.5	11.0	10.5	12.5	12.0	10.5	10.0
7	4.0	3.0	6.0	4.0	10.5	8.5	11.5	11.0	13.0	12.0	11.0	10.0
8	5.0	3.5	6.5	5.0	11.0	9.0	11.5	11.0	12.5	11.5	10.5	9.5
9	4.0	3.5	7.5	5.0	10.5	8.5	11.5	11.0	12.0	11.5	11.0	10.5
10	5.0	4.0	7.0	4.5	10.5	9.0	11.5	10.5	13.0	11.5	10.5	10.5
11	4.5	3.5	8.0	4.5	10.5	9.5	11.5	10.5	13.5	12.0	11.0	10.0
12	5.0	4.0	6.5	5.0	11.5	9.5	11.5	10.5	13.0	12.0	10.5	10.0
13	4.5	4.0	7.0	5.0	10.5	10.0	11.5	10.5	12.5	12.0	10.5	10.0
14	5.0	4.0	9.0	5.5	11.0	10.0	11.5	10.5	13.0	11.5	11.0	10.5
15	4.5	4.0	7.0	6.0	10.0	9.0	11.5	10.5	13.5	11.5	10.5	10.0
16	5.0	3.5	6.5	6.0	10.0	9.0	12.0	11.0	14.0	11.5	11.0	10.5
17	5.0	4.0	7.0	6.0	11.0	9.0	11.0	10.0	13.5	12.5	11.0	10.5
18	5.5	3.5	6.5	6.0	10.5	9.5	11.0	10.0	13.5	12.5	11.0	10.0
19	6.0	4.0	7.0	5.5	10.5	9.5	12.0	10.5	13.0	12.0	11.0	10.5
20	5.0	4.5	6.5	6.0	11.0	9.5	11.5	10.0	12.5	12.0	10.5	10.0
21	5.0	4.5	7.0	6.0	12.5	10.5	12.5	10.5	14.0	12.0	10.0	9.5
22	5.0	4.5	7.5	6.0	11.5	11.0	14.0	11.0	13.5	11.5	9.5	9.0
23	5.0	4.0	7.5	6.5	11.5	10.5	14.0	11.5	13.0	12.5	9.0	8.5
24	5.0	3.5	8.0	7.0	12.5	10.5	13.5	12.5	13.5	12.5	9.0	8.5
25	5.5	4.0	8.5	7.0	11.0	10.5	15.5	12.0	13.0	12.5	8.5	8.0
26	6.0	3.5	9.0	6.5	10.5	9.5	13.5	12.5	12.5	11.0	8.5	7.5
27	6.5	4.5	9.5	7.0	9.5	9.0	13.5	12.5	11.0	10.0	8.5	8.0
28	7.0	4.0	9.0	7.5	10.0	9.0	14.0	12.5	11.0	10.0	9.0	8.5
29	7.0	4.0	8.0	6.5	10.0	8.5	14.5	13.0	10.5	10.0	9.0	9.0
30	6.0	5.0	8.0	6.5	10.5	9.5	14.0	13.0	11.5	10.5	9.5	9.0
31	---	---	8.0	6.5	---	---	13.5	12.5	11.0	10.5	---	---
MONTH	7.0	3.0	9.5	3.5	12.5	7.5	15.5	10.0	14.0	10.0	11.0	7.5
YEAR	15.5	.0										

15087545 MUNICIPAL WATERSHED CREEK NEAR PETERSBURG

LOCATION.--Lat 56°46'42", long 132°55'00", in NE¼NW¼NE¼ sec.11, T.59 S., R.79 E., Hydrologic Unit 19060000, on Mitkof Island, in Tongass National Forest, on left bank 0.5 mi upstream from the Petersburg reservoir, 2.2 mi upstream from mouth, and 2.3 mi southeast of Petersburg.

DRAINAGE AREA.--2.20 mi^2.

PERIOD OF RECORD.--October 1978 to current year.

REVISED RECORDS.--WDR Ak-83-1: 1979-80 (M).

GAGE.--Water-stage recorder. Altitude of gage is 400 ft, from topographic map.

REMARKS.--Records poor.

AVERAGE DISCHARGE.--6 years, 21.9 ft^3/s, 135.18 in/yr, 15,870 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 875 ft^3/s Nov. 5, 1981, gage height, 4.49 ft; from rating curve extended above 120 ft^3/s on basis of slope-area measurement at gage height 3.72 ft, from floodmarks; minimum daily, 0.60 ft^3/s Aug. 24-28, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, unknown Jan. 2, gage height, unknown, no recorded peak above base o 430 ft^3/s; minimum daily, 1.1 ft^3/s Dec. 27-29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.3	5.8	4.0	40	35	30	12	24	25	11	12	25
2	27	18	3.7	150	80	18	8.9	15	53	8.4	6.6	18
3	40	14	3.5	30	33	16	8.9	13	52	12	5.8	14
4	22	18	3.4	60	45	29	13	13	54	8.7	5.5	12
5	7.7	10	3.3	20	34	17	11	11	30	6.8	4.8	10
6	5.8	5.8	3.2	9.0	22	20	8.4	11	16	6.1	8.4	8.5
7	19	4.8	3.0	7.5	100	22	7.5	13	12	5.6	6.1	7.5
8	19	4.3	2.9	6.8	40	19	13	26	10	7.4	26	6.8
9	6.5	3.9	2.8	7.3	15	17	15	16	11	72	42	6.4
10	6.5	3.7	2.7	12	10	30	10	15	11	39	13	6.0
11	6.3	4.3	2.7	23	8.5	28	9.9	17	11	20	8.2	5.8
12	6.3	9.0	2.7	12	12	15	12	16	11	62	6.5	5.6
13	5.8	4.6	2.7	8.2	15	10	25	18	11	25	16	5.4
14	4.9	4.3	2.6	6.8	8.4	8.4	13	19	29	17	6.8	9.0
15	4.4	4.0	2.6	5.8	5.2	7.2	15	17	30	24	5.6	15
16	4.4	15	2.4	5.0	3.7	7.7	19	23	18	45	4.6	100
17	6.5	8.3	2.1	4.5	9.9	21	9.9	18	11	13	5.8	40
18	57	11	1.8	4.2	7.7	39	8.4	20	12	16	6.6	20
19	44	6.5	1.8	4.0	16	53	10	23	11	11	6.0	13
20	47	4.8	1.6	5.0	12	17	16	46	8.9	6.8	12	11
21	34	3.9	1.4	7.5	10	9.5	52	26	8.7	5.8	12	9.4
22	33	3.8	1.3	30	8.8	25	25	13	9.2	5.2	6.5	8.2
23	19	4.3	1.3	14	7.8	37	24	15	12	4.6	5.7	7.4
24	41	4.0	1.2	9.5	7.2	20	11	66	12	4.5	7.0	6.8
25	53	3.6	1.2	7.5	6.8	53	8.9	23	10	4.4	77	6.3
26	24	4.9	1.2	25	6.5	40	8.2	15	45	4.0	18	5.9
27	19	8.7	1.1	85	6.3	17	8.2	11	25	3.6	8.6	5.6
28	38	6.0	1.1	40	6.5	22	9.9	34	11	3.7	14	30
29	35	4.9	1.1	25	7.0	31	11	18	8.2	4.0	28	19
30	15	4.4	1.3	85	---	37	11	13	8.9	62	25	13
31	7.2	---	2.0	60	---	22	---	12	---	28	75	---
TOTAL	664.6	208.6	69.7	809.6	579.3	737.8	415.1	620	576.9	546.6	485.1	450.6
MEAN	21.4	6.95	2.25	26.1	20.0	23.8	13.8	20.0	19.2	17.6	15.6	15.0
MAX	57	18	4.0	150	100	53	52	66	54	72	77	100
MIN	4.4	3.6	1.1	4.0	3.7	7.2	7.5	11	8.2	3.6	4.6	5.4
CFSM	9.73	3.16	1.02	11.9	9.09	10.8	6.27	9.09	8.73	8.00	7.09	6.82
IN.	11.23	3.53	1.18	13.68	9.79	12.47	7.02	10.48	9.75	9.24	8.20	7.62
AC-FT	1320	414	138	1610	1150	1460	823	1230	1140	1080	962	894

CAL YR 1983 TOTAL 6100.5 MEAN 16.7 MAX 183 MIN 1.1 CFSM 7.59 IN 103.11 AC-FT 12100
WTR YR 1984 TOTAL 6163.9 MEAN 16.8 MAX 150 MIN 1.1 CFSM 7.64 IN 104.18 AC-FT 12230

NOTE.--No gage-height record Dec. 29 to Feb. 14 and Sept. 1-30.

15087570 HAMILTON CREEK NEAR KAKE

LOCATION.--Lat 56°52'21", long 133°40'30", in SE¼NE¼ sec.1, T.58 S., R.74 E., Hydrologic Unit 19060000, on Kupreanof Island, in Tongass National Forest, 2.9 mi upstream from mouth at Hamilton Bay and 9.5 mi southeast of Kake.

DRAINAGE AREA.--65.0 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Annual maximums, water years 1972-73 and 1975-76. October 1976 to current year.

REVISED RECORDS.--WDR AK-79-1: 1976 (M). WDR AK-80-1: 1977 (M) and 1978 (M).

GAGE.--Water-stage recorder. Altitude of gage is 25 ft, from topographic map. Prior to October 1976, crest-stage gage at same datum and different site.

REMARKS.--Records good except those for December, which are fair.

AVERAGE DISCHARGE.--8 years, 328 ft^3/s, 68.53 in/yr, 237,600 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 15,600 ft^3/s Jan. 30, 1976, gage height, 14.97 ft, from floodmarks, from rating curve extended above 780 ft^3/s on basis of slope-area measurement at gage height 13.36 ft; minimum, 9.5 ft^3/s July 7, 1982, gage height, 6.55 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 4,400 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jan. 2	0415	*8,180	*12.86	Feb. 7	1100	4,400	11.33
Jan. 4	1945	4,480	11.37	Sept. 9	1930	4,460	11.36

Minimum daily discharge, 28 ft^3/s Dec. 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	156	166	119	1620	619	532	199	73	147	97	386	536
2	151	722	109	4870	1950	991	130	132	505	135	294	411
3	342	512	81	965	614	398	105	105	304	106	155	540
4	432	506	76	2750	667	617	103	89	879	119	142	386
5	708	422	74	1420	485	326	171	105	386	101	122	269
6	269	230	58	271	657	188	132	89	184	76	156	157
7	178	122	60	157	2680	147	98	69	110	64	332	127
8	311	95	58	138	530	131	113	63	81	62	392	104
9	240	84	56	145	199	110	261	63	65	122	668	92
10	145	77	51	250	138	108	147	57	56	464	382	133
11	127	143	48	312	123	127	100	53	50	421	273	139
12	124	412	46	213	178	119	84	53	49	1260	153	101
13	209	164	43	131	612	94	157	49	53	834	212	86
14	139	120	42	105	297	78	191	46	103	557	188	413
15	107	101	41	91	285	67	159	42	185	401	110	1020
16	93	102	40	81	305	65	220	40	411	756	81	1110
17	92	221	38	75	1150	450	157	47	190	411	67	2050
18	2080	349	37	73	1180	676	105	54	184	522	102	1170
19	1190	493	36	80	1660	1060	82	77	144	462	99	372
20	2240	203	35	90	2500	442	84	111	106	187	252	200
21	1020	124	34	380	571	186	407	138	79	131	593	155
22	808	107	33	1180	225	156	364	95	67	101	331	126
23	816	95	32	505	171	591	562	71	65	89	149	97
24	2320	139	31	142	156	372	368	117	134	76	154	76
25	1630	114	31	110	122	1680	166	160	326	76	1900	64
26	353	113	31	168	105	1040	110	94	353	76	516	54
27	577	181	30	929	117	296	84	65	359	70	222	53
28	1790	247	29	511	400	227	70	70	206	65	138	142
29	558	144	29	266	515	585	63	139	136	62	142	270
30	495	95	28	1800	---	780	56	221	103	67	591	286
31	271	---	50	1060	---	426	---	174	---	181	1460	---
TOTAL	19971	6603	1516	20888	19211	13065	5048	2761	6020	8151	10762	10739
MEAN	644	220	48.9	674	662	421	168	89.1	201	263	347	358
MAX	2320	722	119	4870	2680	1680	562	221	879	1260	1900	2050
MIN	92	77	28	73	105	65	56	40	49	62	67	53
CFSM	9.91	3.39	.75	10.4	10.2	6.48	2.59	1.37	3.09	4.05	5.34	5.51
IN.	11.43	3.78	.87	11.95	10.99	7.48	2.89	1.58	3.45	4.66	6.16	6.15
AC-FT	39610	13100	3010	41430	38110	25910	10010	5480	11940	16170	21350	21300

CAL YR 1983 TOTAL 106339 MEAN 291 MAX 2540 MIN 28 CFSM 4.48 IN 60.86 AC-FT 210900
WTR YR 1984 TOTAL 124735 MEAN 341 MAX 4870 MIN 28 CFSM 5.25 IN 71.39 AC-FT 247400

15087570 HAMILTON CREEK NEAR KAKE--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1977 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: October 7-13, 1981 and December 3, 1981 to current year

INSTRUMENTATION.--Temperature recorder since Oct. 7, 1981.

REMARKS.--Records good. Period of no record due to equipment malfunction.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum recorded, 22.5°C June 25 and 28, 1982; minimum recorded, 0.0°C during many winter days.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum recorded, 18.5°C June 21, but may have been higher during period of missing record; minimum recorded, 0.0°C during many winter days.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1983 TO JUNE 1984

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	8.5	7.0	3.0	2.0	.0	.0	.0	.0	1.0	.0	2.5	2.0
2	8.5	7.5	4.5	3.5	.0	.0	.0	.0	1.0	.5	2.5	2.0
3	8.5	8.0	5.5	4.5	.0	.0	.0	.0	1.5	.5	2.5	2.0
4	9.0	8.0	5.0	4.0	.0	.0	.0	.0	2.0	1.5	3.0	2.5
5	8.5	7.5	4.5	3.5	.5	.0	.0	.0	2.0	1.5	4.0	3.0
6	8.0	7.0	3.5	2.5	1.0	.0	.0	.0	2.0	1.5	4.5	3.0
7	8.5	7.5	2.0	.5	.5	.0	.0	.0	2.5	1.0	4.5	3.0
8	8.0	7.0	.5	.0	.0	.0	.0	.0	1.0	.0	4.5	3.0
9	7.0	5.5	1.5	.5	.0	.0	.0	.0	.0	.0	3.5	2.0
10	6.0	5.5	1.5	.5	.0	.0	.0	.0	.0	.0	5.0	3.5
11	8.0	6.0	3.0	1.5	.0	.0	.0	.0	.0	.0	5.5	4.0
12	8.5	7.5	3.0	3.0	.0	.0	.0	.0	1.0	.0	5.0	3.5
13	7.0	6.0	2.5	2.0	.0	.0	.0	.0	1.5	.5	4.0	2.0
14	6.0	4.5	3.0	2.0	.0	.0	.0	.0	1.0	.5	4.5	3.0
15	5.0	3.0	2.5	2.0	.0	.0	.0	.0	1.5	1.0	3.5	2.5
16	6.0	4.5	3.0	2.5	.0	.0	.0	.0	2.0	1.0	4.0	2.5
17	7.0	5.5	3.5	3.0	.0	.0	.0	.0	2.0	1.5	3.5	3.0
18	7.0	6.5	3.5	2.5	.0	.0	.0	.0	1.5	1.0	4.0	3.5
19	7.0	7.0	2.5	1.5	.0	.0	.0	.0	2.5	1.5	4.0	3.5
20	7.0	7.0	1.5	.0	.0	.0	.0	.0	2.5	2.0	4.0	3.0
21	7.0	7.0	.0	.0	.0	.0	.0	.0	2.0	1.5	4.0	2.0
22	7.0	5.5	.0	.0	.0	.0	.0	.0	2.0	1.0	4.5	2.0
23	5.5	5.0	1.0	.0	.0	.0	.0	.0	1.0	.0	4.5	3.5
24	6.0	4.0	.5	.0	.0	.0	.0	.0	.5	.0	4.5	3.5
25	6.5	5.5	.0	.0	.0	.0	.0	.0	.5	.0	4.0	3.5
26	5.5	4.5	.0	.0	.0	.0	.0	.0	1.0	.5	5.0	3.5
27	5.0	4.5	1.5	.0	.0	.0	.5	.0	2.0	.5	5.0	3.5
28	6.0	5.0	1.5	1.5	.0	.0	.0	.0	2.5	1.5	5.5	4.0
29	5.5	5.0	1.5	.5	.0	.0	.5	.0	2.5	1.5	4.5	4.0
30	5.0	4.5	.0	.0	.0	.0	.5	.0	---	---	4.5	4.0
31	4.0	2.5	---	---	.0	.0	.5	.5	---	---	5.5	4.0
MONTH	9.0	2.5	5.5	.0	1.0	.0	.5	.0	2.5	.0	5.5	2.0

SOUTHEAST ALASKA

15087570 HAMILTON CREEK NEAR KAKE--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1983 TO JUNE 1984

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	5.5	3.0	9.0	7.0	10.0	8.5						
2	5.0	3.5	9.5	6.5	10.5	8.0						
3	6.5	4.0	9.0	5.0	10.0	6.5						
4	6.5	5.0	9.0	6.0	9.5	8.0						
5	6.5	4.5	9.0	5.0	11.0	8.5						
6	6.0	3.5	11.0	5.5	13.0	8.0						
7	6.0	4.0	11.0	5.5	13.5	9.5						
8	6.5	4.0	11.0	8.5	13.5	9.0						
9	6.5	4.5	12.0	7.0	17.0	10.5						
10	7.5	4.5	11.5	8.5	15.0	11.5						
11	7.5	3.5	11.5	7.5	15.5	12.0						
12	7.0	4.5	12.5	7.0	14.5	12.0						
13	6.5	5.0	12.5	9.5	14.0	12.0						
14	7.5	5.0	14.0	8.0	13.5	11.0						
15	6.0	4.5	15.0	9.5	12.5	10.0						
16	6.5	4.0	12.0	10.0	12.0	9.5						
17	6.5	3.5	12.0	9.0	12.5	9.0						
18	6.5	3.0	12.0	10.0	11.5	10.0						
19	8.0	3.5	12.0	9.5	12.5	10.0						
20	8.5	6.0	12.5	9.0	13.0	11.0						
21	6.5	5.0	12.0	8.0	18.5	12.0						
22	6.0	5.0	12.0	7.5	15.0	13.0						
23	5.5	4.0	12.0	9.0	14.5	12.5						
24	5.5	3.0	11.5	9.5	---	---						
25	7.0	3.0	12.5	8.0	---	---						
26	8.0	2.5	14.0	8.0	---	---						
27	9.0	5.5	13.0	9.0	---	---						
28	9.5	4.5	11.0	9.0	---	---						
29	11.0	6.0	10.5	9.0	---	---						
30	9.0	6.5	11.5	8.0	---	---						
31	---	---	10.5	8.0	---	---						
MONTH	11.0	2.5	15.0	5.0	18.5	8.0						
YEAR		.0										

15087590 ROCKY PASS CREEK NEAR POINT BAKER

LOCATION.--Lat 56°37'10", long 133°44'10", in SW¼SE¼ sec.34, T.60 S., R.74 E., Hydrologic Unit 19060000, on Kuiu Island, in Tongass National Forest, on left bank 0.5 mi upstream from mouth and 22 mi northwest of Point Baker.

DRAINAGE AREA.--2.72 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1976 to current year.

REVISED RECORDS.--WDR AK-79-1: 1977-78 (M). WDR AK-82-1: 1979-80. WDR AK-83-1: Drainage area.

GAGE.-Water-stage recorder. Altitude of gage is 65 ft, from topographic map.

REMARKS.--Records good.

AVERAGE DISCHARGE.--8 years, 11.4 ft^3/s, 56.92 in/yr, 8,260 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,190 ft^3/s Oct. 9, 1979, gage height, 6.15 ft, from rating curve extended above 50 ft^3/s on basis of slope-area measurement of peak flow; minimum daily, 0.02 ft^3/s Nov. 27, 1979.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 230 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jan. 1	1900	298	3.45	Aug. 8	1515	256	3.25
Feb. 7	0645	258	3.26	Sept.17	1445	*367	*3.75

Minimum discharge, 0.45 ft^3/s July 28 and 29, gage height, 0.68 ft, but discharge may have been less during period of ice effect in late December.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	9.5	2.9	109	38	30	4.0	2.0	15	6.5	.70	11
2	16	60	10	114	41	27	2.8	1.5	39	3.8	.79	11
3	44	18	21	40	45	17	3.3	1.3	32	4.0	.69	15
4	32	24	17	150	34	37	8.7	1.1	65	3.5	.91	10
5	7.8	23	6.6	33	17	11	6.8	1.0	22	2.1	.74	6.8
6	4.4	7.7	3.8	9.0	27	5.8	3.4	.88	5.6	1.4	5.3	3.5
7	8.0	4.3	2.8	6.5	87	3.9	2.5	.74	2.8	1.1	4.4	2.3
8	19	2.9	2.2	5.0	12	3.5	3.6	1.6	1.7	1.0	63	1.6
9	7.7	2.4	1.7	25	5.0	2.7	3.1	1.2	1.2	26	29	7.6
10	6.9	2.0	1.7	23	3.0	5.9	1.9	.95	.94	18	11	24
11	9.5	12	1.4	17	4.6	14	1.4	.86	.81	22	5.1	9.4
12	7.1	22	1.3	6.0	16	5.3	1.2	.78	.73	43	3.0	4.1
13	4.7	6.4	1.3	4.0	22	3.2	3.6	.68	.68	7.7	24	2.6
14	3.4	4.5	1.4	2.5	14	2.2	3.7	.62	1.4	5.6	17	36
15	2.6	3.9	1.2	1.9	12	1.7	2.0	.55	8.0	13	4.7	40
16	4.4	6.5	1.1	1.5	7.7	13	1.4	.53	7.3	44	2.3	40
17	10	12	1.0	1.4	18	40	1.1	.63	3.3	8.7	2.3	121
18	100	21	.96	1.3	46	28	.91	21	4.0	4.1	4.2	61
19	41	14	.92	6.5	45	55	.82	8.3	2.3	2.9	2.4	19
20	102	5.7	.89	51	49	13	1.0	17	1.5	1.8	12	6.6
21	51	3.2	.86	60	11	5.5	2.9	8.4	1.1	1.3	15	29
22	42	2.4	.83	84	6.6	20	7.7	3.1	1.0	1.0	5.3	8.0
23	46	14	.81	29	6.2	42	11	1.8	4.8	.87	3.0	3.6
24	66	10	.78	9.1	5.4	19	4.5	18	6.5	.74	8.2	2.3
25	31	4.1	.76	9.4	3.9	32	2.4	8.9	3.0	.67	46	1.8
26	17	8.6	.74	62	4.6	22	1.5	3.1	27	.60	11	1.4
27	21	36	.73	52	8.1	7.1	1.1	1.6	8.8	.54	4.8	1.3
28	46	11	.72	18	31	7.9	.92	2.5	12	.46	2.9	45
29	24	5.2	.71	31	14	14	.78	4.8	4.3	.46	48	20
30	17	3.2	.80	85	---	11	.71	3.3	4.4	.88	78	19
31	10	---	5.0	29	---	7.8	---	2.8	---	.74	43	---
TOTAL	819.5	359.5	93.91	1076.1	634.1	507.5	90.74	121.52	288.16	228.46	458.73	563.9
MEAN	26.4	12.0	3.03	34.7	21.9	16.4	3.02	3.92	9.61	7.37	14.8	18.8
MAX	102	60	21	150	87	55	11	21	65	44	78	121
MIN	2.6	2.0	.71	1.3	3.0	1.7	.71	.53	.68	.46	.69	1.3
CFSM	9.71	4.41	1.11	12.8	8.05	6.03	1.11	1.44	3.53	2.71	5.44	6.91
IN.	11.20	4.91	1.28	14.71	8.67	6.94	1.24	1.66	3.94	3.12	6.27	7.71
AC-FT	1630	713	186	2130	1260	1010	180	241	572	453	910	1120

CAL YR 1983 TOTAL 4093.60 MEAN 11.2 MAX 154 MIN .25 CFSM 4.12 IN 55.97 AC-FT 8120
WTR YR 1984 TOTAL 5242.12 MEAN 14.3 MAX 150 MIN .46 CFSM 5.26 IN 71.67 AC-FT 10400

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SOUTHEAST ALASKA

15087590 ROCKY PASS CREEK NEAR POINT BAKER--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1977 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	SPE-CIFIC CON-DUCT-ANCE (UMHOS) (00095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE, AIR (DEG C) (00020)	TEMPER-ATURE (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	ALKA-LINITY FIELD (MG/L AS CACO3) (00410)
APR								
10...	1230	1.7	17	5.5	7.5	6.0	10.8	3

15087690 INDIAN RIVER NEAR SITKA

LOCATION.--Lat 57°04'01", long 135°17'42", in SW¼SE¼ sec.30, T.55 S., R.64 E., Greater Sitka Borough, Hydrologic Unit 19060000, on Baranof Island, in Tongass National Forest, 2 mi upstream from mouth, and 1 mi southeast of Sitka.

DRAINAGE AREA.--10.1 mi².

PERIOD OF RECORD.--August 1980 to current year.

REVISED RECORDS.--WDR-82-1: 1980 and 1981.

GAGE.--Water-stage recorder. Altitude of gage is 125 ft, from topographic map.

REMARKS.--Records fair except those for period of no gage-height record, Feb. 7 to Mar. 14, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,080 ft³/s Aug. 25, 1984, gage height, 13.02 ft, from rating curve extended above 3,100 ft³/s; minimum, 14 ft³/s Dec. 29 and 30, 1983.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 5,080 ft³/s, Aug. 25, gage height, 13.02 ft, from rating curve extended above 3,100 ft³/s; minimum, 14 ft³/s Dec. 29 and 30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	133	69	27	311	168	190	74	53	152	37	33	90
2	113	83	34	569	188	130	66	51	224	41	31	85
3	435	69	42	113	180	100	62	53	132	43	30	71
4	180	86	32	395	468	105	61	45	100	40	31	64
5	146	74	30	239	168	100	58	43	101	40	30	56
6	127	58	28	91	133	96	53	44	84	39	34	51
7	157	51	27	74	400	94	50	51	75	38	35	48
8	110	48	25	64	100	96	49	77	69	37	62	44
9	86	44	24	63	75	100	50	74	66	53	62	41
10	282	41	24	91	58	120	49	65	64	79	45	37
11	201	39	24	80	55	140	48	60	63	57	46	35
12	357	42	24	62	75	100	48	58	64	78	43	33
13	129	36	23	55	125	82	49	58	62	94	41	31
14	104	33	22	53	105	72	50	61	83	86	38	30
15	86	31	22	50	98	65	61	65	136	70	36	35
16	77	30	20	46	100	60	52	66	79	141	33	82
17	77	31	20	45	140	56	46	61	65	115	32	72
18	249	34	19	43	130	61	43	64	61	80	31	97
19	178	30	19	65	220	142	40	64	61	73	30	85
20	157	27	18	105	160	88	43	64	57	64	64	70
21	112	26	17	125	100	65	56	57	54	58	46	122
22	147	26	16	166	70	62	56	53	54	54	39	66
23	153	26	16	137	56	105	62	53	56	51	36	53
24	143	25	16	71	48	85	50	74	53	49	80	50
25	244	24	16	61	44	89	45	90	49	47	1810	45
26	140	27	16	419	40	215	44	69	51	44	506	43
27	121	69	15	895	44	97	43	57	49	41	173	40
28	158	43	15	177	90	77	42	65	45	38	112	66
29	102	32	14	214	100	100	44	77	42	36	104	51
30	95	29	14	540	---	91	49	65	39	37	131	57
31	81	---	15	285	---	85	---	62	---	35	108	---
TOTAL	4880	1283	674	5704	3738	3068	1543	1899	2290	1795	3932	1750
MEAN	157	42.8	21.7	184	129	99.0	51.4	61.3	76.3	57.9	127	58.3
MAX	435	86	42	895	468	215	74	90	224	141	1810	122
MIN	77	24	14	43	40	56	40	43	39	35	30	30
CFSM	15.5	4.24	2.15	18.2	12.8	9.80	5.09	6.07	7.55	5.73	12.6	5.77
IN.	17.97	4.73	2.48	21.01	13.77	11.30	5.68	6.99	8.43	6.61	14.48	6.44
AC-FT	9680	2540	1340	11310	7410	6090	3060	3770	4540	3560	7800	3470

CAL YR 1983 TOTAL 36428 MEAN 99.8 MAX 1500 MIN 14 CFSM 9.88 IN 134.16 AC-FT 72250
WTR YR 1984 TOTAL 32556 MEAN 89.0 MAX 1810 MIN 14 CFSM 8.81 IN 119.90 AC-FT 64570

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SOUTHEAST ALASKA

15090000 GREEN LAKE NEAR SITKA

(Formerly published as Green Lake Outlet near Sitka)

LOCATION.--Lat 56°59'14", long 135°06'37", in SW¼NE¼ sec. 29, T. 56 S., R. 65 E., Hydrologic Unit 19060000, on Baranof Island, in Tongass National Forest. 0.4 mi upstream from mouth at Silver Bay, and 9.4 mi southeast of Sitka.

DRAINAGE AREA.--28.8 mi², revised.

PERIOD OF RECORD.--September 1915 to September 1925 (published as "Green Lake Outlet near Sitka", prior to construction of Green Lake Dam). October 1983 to current year (month end reservoir elevation and contents and monthly discharges only).

REVISED RECORDS.--WSP 1372: 1916, 1917, 1922 (monthly discharge).

GAGE.--Nonrecording remote lake-level indicator at Blue Lake powerhouse (6 mi northwest of gage). Totalizing MWH meters on the two turbines in Green Lake powerhouse. Datum of gage is at National Geodetic Vertical Datum of 1929. September 1915 to September 1925, recording gage at site of present day dam. Altitude of gage was 220 ft by barometer. Prior to Dec. 27, 1916 at datum 1.00 ft higher.

REMARKS.--Reservoir is formed by concrete arch dam located at the outlet of Green Lake. Total and usable capacity below spillway crest elevation of 395 ft is 92,500 and 74,000 acre-ft, respectively. Reservoir is used for power. Discharge released through the turbines is computed from relation between discharge, head, and power generation; release flow empties directly into Silver Bay and is not returned to stream. Spill is computed from a theoretical relation between discharge and stage above the crest of the 100 ft wide spillway.

COOPERATION.--Reservoir elevations, capacity table, spillway rating, turbine rating and MWH power generation furnished by City and Borough of Sitka. Discharge records for December 1920 to September 1925 furnished by U.S Forest Service.

AVERAGE DISCHARGE.--10 years (water years, 1916-25), 293 ft³/s, 138.16 in/yr, 212,300 acre-ft/yr.

MONTH END RESERVOIR ELEVATION, IN FEET, AND CONTENTS, IN ACRE FEET WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	ELEVATION	CONTENTS	CHANGE IN CONTENTS
OCT. 31	395 a	92500	---
NOV. 30	388.3 a	86000	- 6500
DEC. 31	378.2 a	76830	- 9170
JAN. 31	379.1	77580	+ 750
FEB. 29	380.7	78920	+ 1340
MAR. 31	379.5	77920	- 1000
APR. 30	370.6	70500	- 7420
MAY 31	369.8	69830	- 670
JUN. 30	371.7	71420	+ 1590
JUL. 31	371.8	71500	+ 80
AUG. 31	385.8	83620	+12120
SEP. 30	385.5	83330	- 290
		WTR YR 1984	---

a. Reservoir elevation on last day of month not provided. Elevation estimated from adjacent readings.

MEAN MONTHLY DISCHARGES, IN CUBIC FEET PER SECOND WATER YEAR OCTOBER 1983 to SEPTEMBER 1984

MONTH	RELEASE	SPILL	TOTAL	ADJUSTED
OCT.	181	b	---	---
NOV.	211	b	---	---
DEC.	217	0	217	68
JAN.	191	0	191	203
FEB.	216	0	216	239
MAR.	218	0	218	202
APR.	272	0	272	147
MAY	298	0	298	287
JUN.	397	0	397	424
JUL.	419	0	419	420
AUG.	240	0	240	437
SEP.	260	0	260	255
WTR YR 1984	260	b	---	---

b Amount of spill unknown.

15101500 GREENS CREEK NEAR JUNEAU

LOCATION.--Lat 58°05'18", long 134°44'49", in SE¼ sec.11, T.44 S., R.65 E., Hydrologic Unit 19060000, on Admiralty Island, in Tongass National Forest, on left bank 1 mi upstream from mouth at Hawk Inlet and 19 mi southwest of Juneau.

DRAINAGE AREA.--22.8 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1978 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 50 ft, from topographic map.

REMARKS.--Records good except those for December, which are fair.

AVERAGE DISCHARGE.--6 years, 98.5 ft^3/s, 58.67 in/yr, 71,360 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,640 ft^3/s Oct. 30, 1978, gage height, 15.12 ft; minimum daily, 8.9 ft^3/s Feb. 14, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 596 ft^3/s Feb. 4, gage height, 13.08 ft, no peak above base of 600 ft^3/s; minimum daily, 16 ft^3/s Dec. 25-31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	75	66	37	158	59	28	54	60	122	108	89	131
2	72	73	27	290	164	28	48	65	214	104	89	124
3	104	71	26	191	68	28	45	65	197	102	85	119
4	85	71	25	232	340	30	54	62	167	100	83	108
5	76	64	25	246	114	30	63	60	167	102	80	95
6	81	58	25	118	105	34	49	60	164	108	87	89
7	86	51	24	72	169	46	44	62	149	110	89	83
8	83	48	23	61	88	62	45	77	140	102	85	74
9	70	46	22	63	63	62	45	84	133	122	110	72
10	74	44	22	52	52	91	44	85	135	135	95	64
11	90	43	21	60	46	102	43	96	135	140	89	59
12	92	43	20	32	40	84	45	102	142	147	127	53
13	80	41	20	24	39	68	47	104	142	172	223	49
14	79	39	19	22	37	56	47	120	149	149	146	49
15	70	38	19	21	35	49	47	122	152	142	117	54
16	65	36	19	20	34	44	47	114	140	236	99	106
17	65	35	18	20	36	42	46	140	135	202	83	114
18	207	36	18	20	40	43	45	169	135	177	82	95
19	177	35	18	20	54	50	45	135	135	157	78	95
20	183	31	18	20	76	59	48	135	135	133	122	87
21	128	30	17	20	54	46	87	135	140	118	136	80
22	128	30	17	20	42	42	72	126	154	114	99	67
23	151	30	17	34	36	52	65	116	154	104	93	60
24	156	30	17	42	32	51	58	116	152	100	133	54
25	236	27	16	150	30	83	51	138	142	100	201	50
26	139	28	16	220	29	101	48	133	135	94	173	46
27	109	28	16	456	28	74	48	122	131	87	136	44
28	130	28	16	213	28	57	48	120	126	82	110	32
29	95	27	16	50	28	52	50	116	118	80	103	49
30	84	27	16	122	---	63	56	104	112	83	121	48
31	73	---	16	120	---	64	---	100	---	88	151	---
TOTAL	3343	1254	626	3189	1966	1721	1534	3243	4352	3798	3514	2280
MEAN	108	41.8	20.2	103	67.8	55.5	51.1	105	145	123	113	76.0
MAX	236	73	37	456	340	102	87	169	214	236	223	131
MIN	65	27	16	20	28	28	43	60	112	80	78	44
CFSM	4.74	1.83	.89	4.52	2.97	2.43	2.24	4.61	6.36	5.40	4.96	3.33
IN.	5.45	2.05	1.02	5.20	3.21	2.81	2.50	5.29	7.10	6.20	5.73	3.72
AC-FT	6630	2490	1240	6330	3900	3410	3040	6430	8630	7530	6970	4520

CAL YR 1983	TOTAL	25338	MEAN 69.4	MAX 364	MIN 14	CFSM 3.04	IN 41.34	AC-FT	50260
WTR YR 1984	TOTAL	30820	MEAN 84.2	MAX 456	MIN 16	CFSM 3.69	IN 50.28	AC-FT	61130

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15101500 GREENS CREEK NEAR JUNEAU--Continued

PERIOD OF RECORD.--Water years 1978 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: December 1978 to current year.
WATER TEMPERATURE: December 1978 to current year.

INSTRUMENTATION.--Water-quality mini-monitor since Dec. 31, 1978.

REMARKS.--Records fair. Period of no record due to equipment malfunction.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum recorded, 277 micromhos/cm at 25°C Jan. 31 and Feb. 1-2, 1979; minimum recorded, 54 micromhos/cm at 25°C, Aug. 26, 1982 and Feb. 4, 1984.
WATER TEMPERATURE: Maximum recorded, 13.0°C Aug. 8, 9, 1981; minimum recorded, 0.0°C on many days during winter period.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum recorded, 173 micromhos/cm at 25°C Dec. 30; minimum recorded, 54 micromhos/cm at 25°C Feb. 4.
WATER TEMPERATURE: Maximum recorded, 12.0°C Aug 3 and 5; minimum recorded, 0.0°C on many days during winter period.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	SAMPLE LOCATION, CROSS SECTION (FT FM L BANK) (00009)	SPECIFIC CONDUCTANCE (UMHOS) (00095)	TEMPERATURE (DEG C) (00010)
DEC				
20...	1035	4.00	182	.0
20...	1038	8.00	182	.0
20...	1041	12.0	179	.0
20...	1044	16.0	181	.0
20...	1047	20.0	182	.0
20...	1050	24.0	184	.0
20...	1053	28.0	182	.0
20...	1055	32.0	182	.0

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS) (00061)	SPECIFIC CONDUCTANCE (UMHOS) (00095)	PH (STANDARD UNITS) (00400)	PH LAB (STANDARD UNITS) (00403)	TEMPERATURE, AIR (DEG C) (00020)	TURBIDITY (NTU) (00076)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)
DEC									
20...	1030	18	182	7.8	--	-5.0	--	761	14.8
MAR									
13...	1030	70	104	--	7.8	--	1.2	--	13.6
MAY									
30...	0930	100	105	7.6	--	--	--	763	13.2
SEP									
07...	1430	64	123	--	8.0	14.0	1.0	--	10.5

DATE	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	HARDNESS (MG/L AS CACO3) (00900)	HARDNESS, NONCARBONATE (MG/L CACO3) (00902)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)
DEC									
20...	101	--	--	--	--	--	--	--	--
MAR									
13...	--	K2	<1	61	12	19	3.3	1.8	.20
MAY									
30...	103	K1	<1	--	--	--	--	--	--
SEP									
07...	--	--	--	66	15	21	3.4	1.7	.20

K NON-IDEAL COLONY COUNT

15101500 GREENS CREEK NEAR JUNEAU--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	ALKALINITY FIELD (MG/L AS CACO3) (00410)	ALKALINITY LAB (MG/L AS CACO3) (90410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)
DEC 20...	31	--	--	--	--	--	--	--
MAR 13...	51	46	13	10	<.10	3.8	80	81
MAY 30...	--	--	--	--	--	--	--	--
SEP 07...	--	52	20	1.1	<.10	4.1	78	83

DATE	TIME	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N) (00607)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITROGEN DISSOLVED (MG/L AS N) (00602)	PHOSPHORUS, DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P) (00671)	OIL AND GREASE, TOTAL RECOV. GRAVIMETRIC (MG/L) (00556)
MAR 13...	1030	.26	.070	.73	.80	1.1	.020	.010	--
SEP 07...	1430	<.10	.030	--	<.20	--	.010	.020	<1

DATE	TIME	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL) (01105)	ALUMINUM, DISSOLVED (UG/L AS AL) (01106)	ARSENIC TOTAL (UG/L AS AS) (01002)	ARSENIC DISSOLVED (UG/L AS AS) (01000)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA) (01007)	BARIUM, DISSOLVED (UG/L AS BA) (01005)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	CADMIUM DISSOLVED (UG/L AS CD) (01025)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)
MAR 13...	1030	200	<100	<1	<1	<100	37	<1	<1	<10
SEP 07...	1430	100	<100	<1	<1	<100	34	1	<1	<10

DATE	CHROMIUM, DISSOLVED (UG/L AS CR) (01030)	COBALT, TOTAL RECOVERABLE (UG/L AS CO) (01037)	COBALT, DISSOLVED (UG/L AS CO) (01035)	COPPER, TOTAL RECOVERABLE (UG/L AS CU) (01042)	COPPER, SUSPENDED RECOVERABLE (UG/L AS CU) (01041)	COPPER, DISSOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)	IRON, SUSPENDED RECOVERABLE (UG/L AS FE) (01044)	IRON, DISSOLVED (UG/L AS FE) (01046)
MAR 13...	<10	6	<1	7	4	3	230	170	57
SEP 07...	<10	<1	<1	2	--	1	140	--	17

DATE	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	LEAD, SUSPENDED RECOVERABLE (UG/L AS PB) (01050)	LEAD, DISSOLVED (UG/L AS PB) (01049)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	MERCURY SUSPENDED RECOVERABLE (UG/L AS HG) (71895)	MERCURY DISSOLVED (UG/L AS HG) (71890)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI) (01067)
MAR 13...	4	1	3	<10	5	.3	.0	.6	19
SEP 07...	5	--	1	<10	4	<.1	--	<.1	6

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SOUTHEAST ALASKA

15101500 GREENS CREEK NEAR JUNEAU--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	NICKEL, SUS-PENDED RECOV-ERABLE (UG/L AS NI) (01066)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ZINC, SUS-PENDED RECOV-ERABLE (UG/L AS ZN) (01091)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)
MAR									
13...	14	5	<1	<1	<1	<1	70	50	19
SEP									
07...	--	2	<1	1	<1	<1	10	--	4

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	SPE-CIFIC CON-DUCT-ANCE (UMHOS) (00095)	TEMPER-ATURE (DEG C) (00010)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
OCT						
03...	1240	140	110	--	16	6.0
04...	1345	84	130	--	<1	--
05...	1355	75	120	6.5	<1	--
06...	1130	75	130	6.0	2	.41
06...	1530	79	130	--	1	.21
07...	1140	84	120	--	<1	--
08...	1130	84	130	--	<1	--
SEP						
07...	1430	64	123	9.0	7	1.2
18...	1100	91	120	--	20	4.9
19...	1230	97	120	--	2	.52
20...	1100	87	120	--	1	.23

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	126	120	127	124	157	152	170	157	102	90	152	144
2	125	118	128	120	153	151	156	121	86	70	144	142
3	118	104	124	121	153	150	127	122	97	87	146	142
4	116	108	124	119	154	153	123	106	84	54	139	133
5	119	115	126	122	154	151	110	100	90	69	136	135
6	119	113	130	126	154	152	122	110	95	77	136	132
7	114	112	133	130	159	153	131	123	79	68	132	120
8	114	111	134	132	167	159	136	131	97	87	120	113
9	119	114	138	135	168	166	138	136	107	97	114	110
10	119	114	139	137	166	161	138	135	115	107	110	98
11	114	109	141	139	161	159	136	115	127	115	103	97
12	113	109	141	139	161	160	128	118	132	126	110	102
13	117	113	142	140	163	160	134	127	---	---	118	111
14	117	115	143	141	164	160	139	134	---	---	126	118
15	120	116	144	143	160	159	142	138	---	---	133	126
16	123	120	146	144	163	159	147	142	---	---	137	133
17	124	118	145	143	166	163	152	147	---	---	139	137
18	114	79	143	142	168	166	152	150	---	---	142	139
19	93	85	146	143	168	166	152	144	---	---	140	118
20	96	84	149	146	168	167	144	142	---	---	124	114
21	103	97	151	147	169	167	146	144	---	---	133	125
22	104	99	148	147	169	167	147	108	---	---	137	133
23	102	89	149	147	167	166	122	95	136	129	138	119
24	97	90	150	148	167	164	136	122	142	137	126	119
25	91	80	153	150	166	163	146	137	147	143	122	93
26	104	92	151	150	164	163	148	115	149	146	95	93
27	110	104	150	148	166	164	110	86	151	148	113	96
28	108	99	150	148	168	166	95	75	152	151	122	113
29	116	109	153	150	172	168	104	96	152	151	130	123
30	120	116	156	153	173	171	100	74	---	---	130	110
31	124	120	---	---	172	170	93	75	---	---	120	110
MONTH	126	79	156	119	173	150	170	74	152	54	152	93

15101500 GREENS CREEK NEAR JUNEAU--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	129	120	126	116	107	86	97	94	107	94	97	94
2	134	129	120	116	89	82	94	91	107	97	97	94
3	139	134	124	119	90	80	93	91	108	104	98	96
4	140	116	132	125	92	87	95	90	109	107	101	97
5	122	113	134	131	88	84	95	87	113	108	106	101
6	131	123	134	129	91	84	89	83	113	111	108	105
7	136	131	128	117	94	89	89	82	118	109	108	105
8	137	135	116	107	96	90	92	89	123	111	---	---
9	136	133	111	106	97	89	91	85	110	105	---	---
10	138	135	110	106	93	87	86	82	112	110	---	---
11	138	137	107	102	90	84	87	82	114	112	---	---
12	139	135	105	100	88	84	86	78	114	106	---	---
13	137	134	107	101	92	86	85	79	108	92	---	---
14	135	134	104	95	90	83	87	84	102	95	---	---
15	135	133	100	91	88	83	89	83	111	103	---	---
16	138	135	98	90	92	86	82	75	116	110	---	---
17	142	137	100	95	92	90	83	76	122	110	---	---
18	146	142	95	87	93	90	88	81	122	116	---	---
19	147	145	96	87	93	92	90	86	123	117	---	---
20	146	124	94	89	92	90	94	90	122	106	---	---
21	121	102	99	89	91	80	98	94	108	104	112	99
22	123	109	105	99	84	80	100	98	110	104	112	109
23	124	121	107	103	83	81	102	98	113	107	120	112
24	132	124	102	92	85	82	104	102	106	99	---	---
25	136	131	97	91	86	84	105	102	101	94	---	---
26	140	137	100	95	84	72	108	105	96	94	---	---
27	143	140	104	97	84	73	115	107	98	94	---	---
28	143	141	104	99	90	84	113	111	102	97	---	---
29	141	134	105	99	93	88	113	111	104	97	---	---
30	133	125	109	103	95	93	111	100	98	97	---	---
31	---	---	111	107	---	---	104	100	98	95	---	---
MONTH	147	102	134	87	107	72	115	75	123	92	12C	94
YEAR	173	54										

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	7.5	7.0	3.0	2.5	.5	.5	.0	.0	1.0	.5	2.0	1.5
2	7.0	6.5	4.0	3.0	.5	.5	.0	.0	1.0	.0	2.0	1.5
3	7.5	7.0	4.5	4.0	1.5	.5	.0	.0	1.0	.5	2.0	1.5
4	7.0	5.5	4.5	4.0	1.5	1.0	.0	.0	1.0	.0	2.0	1.5
5	7.0	6.0	3.5	3.0	1.5	1.5	.0	.0	1.0	1.0	2.0	1.5
6	6.5	6.0	3.0	2.5	1.5	1.5	.0	.0	1.5	1.5	2.0	1.5
7	6.5	6.0	2.0	1.0	1.0	.0	.0	.0	1.5	1.0	2.0	1.5
8	6.0	3.5	1.5	1.0	.0	.0	.0	.0	1.0	.0	2.0	1.5
9	3.5	3.0	2.0	1.5	.0	.0	.0	.0	.5	.0	2.0	1.0
10	5.0	3.5	2.0	2.0	.0	.0	.0	.0	1.0	.5	2.5	1.5
11	6.0	5.0	2.5	2.0	.0	.0	.0	.0	1.0	.5	2.5	1.5
12	6.0	6.0	2.5	2.0	.0	.0	.5	.0	1.5	1.0	2.0	1.5
13	6.0	5.5	2.5	2.0	.0	.0	.5	.0	1.5	1.0	1.5	1.0
14	5.5	4.0	3.0	2.0	.0	.0	.5	.5	1.5	1.0	1.5	.5
15	4.0	3.5	2.5	1.5	.0	.0	.5	.5	1.5	1.0	2.0	1.0
16	5.0	4.0	2.0	1.0	.0	.0	.5	.0	1.5	1.5	2.0	1.0
17	5.5	5.0	2.5	2.0	.0	.0	.0	.0	1.5	1.5	2.5	1.0
18	5.5	5.5	2.5	2.0	.0	.0	.0	.0	1.5	1.0	2.5	1.5
19	6.0	5.5	2.0	1.0	.0	.0	.0	.0	1.5	1.0	2.5	2.0
20	6.0	5.5	1.0	.0	.0	.0	.5	.0	1.5	1.0	2.5	1.5
21	6.0	5.5	.5	.0	.0	.0	.5	.0	1.0	1.0	1.5	1.0
22	5.5	4.0	1.5	.5	.0	.0	.5	.0	1.0	1.0	2.5	1.0
23	4.5	4.0	1.5	1.0	.0	.0	.0	.0	1.0	.5	2.5	2.0
24	4.5	4.0	1.5	.5	.0	.0	.0	.0	1.0	.5	2.5	2.0
25	5.0	4.5	.5	.5	.0	.0	.0	.0	1.0	.0	3.0	2.0
26	4.5	4.0	1.5	.5	.0	.0	.0	.0	1.0	.5	2.5	2.0
27	4.0	3.5	1.5	1.5	.0	.0	.0	.0	1.5	1.0	3.0	2.0
28	5.0	4.0	1.5	1.0	.0	.0	.0	.0	1.5	1.0	3.0	2.0
29	4.5	3.5	1.0	.0	.5	.0	.0	.0	2.0	1.0	3.0	2.0
30	4.5	4.0	.5	.0	.5	.0	.0	.0	---	---	3.0	2.5
31	3.5	2.5	---	---	.5	.0	.5	.0	---	---	3.5	2.5
MONTH	7.5	2.5	4.5	.0	1.5	.0	.5	.0	2.0	.0	3.5	.5

SOUTHEAST ALASKA

15101500 GREENS CREEK NEAR JUNEAU--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	3.0	1.5	5.5	4.0	5.5	5.0	8.5	6.5	11.5	10.0	8.5	7.5
2	3.5	2.5	5.5	3.5	5.5	4.5	8.5	7.0	11.5	9.0	8.0	7.5
3	4.0	2.5	4.5	3.0	7.0	4.5	8.5	7.0	12.0	9.5	8.5	8.0
4	4.0	3.0	5.0	3.0	7.0	5.0	10.0	6.5	11.5	10.5	8.5	8.0
5	4.0	2.5	5.5	3.0	7.0	5.0	10.5	7.0	12.0	10.0	9.0	8.0
6	3.5	2.0	6.0	3.0	7.5	5.0	11.0	7.5	11.0	10.5	8.5	7.5
7	3.0	2.0	6.5	3.0	7.5	5.5	9.0	8.0	11.0	10.0	---	---
8	4.0	2.5	5.5	4.5	7.5	5.0	8.0	7.5	11.0	10.0	---	---
9	4.0	3.0	6.5	4.0	8.5	5.0	8.5	7.5	10.5	10.0	---	---
10	4.5	3.0	6.5	3.5	8.0	5.0	8.5	7.5	10.5	10.0	---	---
11	4.5	2.5	6.5	4.0	8.0	5.5	9.5	7.5	10.5	10.0	---	---
12	4.5	2.5	6.0	3.5	7.0	5.5	9.0	7.5	10.5	10.0	---	---
13	4.5	3.0	6.5	4.0	7.0	5.5	9.0	8.0	11.0	10.0	---	---
14	4.5	2.5	7.0	3.5	7.0	5.5	9.0	7.5	10.5	9.0	---	---
15	4.5	3.5	7.0	4.0	7.0	5.5	9.0	8.0	10.5	9.0	---	---
16	4.5	3.0	6.5	4.0	7.0	5.0	8.5	8.0	10.5	9.5	---	---
17	4.5	2.5	6.5	4.5	6.5	5.5	9.0	7.5	10.5	9.5	---	---
18	4.5	2.5	6.0	4.5	7.0	6.0	9.5	7.0	11.0	10.5	---	---
19	5.0	3.0	6.5	4.5	7.5	6.0	9.0	7.5	10.5	10.0	---	---
20	5.0	4.0	6.0	5.0	7.5	6.0	9.0	8.0	10.5	10.0	---	---
21	4.5	3.0	6.5	4.0	9.5	6.0	9.0	8.0	11.0	10.0	---	---
22	4.5	2.5	6.5	4.0	8.0	6.5	9.5	8.0	10.5	10.0	---	---
23	4.0	2.0	7.0	4.5	8.5	6.5	10.5	8.0	10.5	10.0	---	---
24	3.5	2.0	7.0	5.0	8.0	6.5	10.5	9.0	10.5	10.0	---	---
25	4.0	1.5	6.5	4.5	8.5	6.5	10.5	9.0	11.5	10.0	---	---
26	4.5	2.0	6.5	5.0	7.5	6.0	10.5	9.0	10.5	9.0	---	---
27	5.0	3.5	7.0	4.5	8.0	5.5	10.0	9.0	9.0	8.5	---	---
28	5.5	2.5	6.0	5.0	8.0	6.5	10.0	9.0	8.5	7.5	---	---
29	6.0	4.0	6.5	4.5	8.0	6.5	10.5	9.0	8.0	7.0	---	---
30	5.5	3.5	6.5	4.5	7.5	6.5	10.5	9.5	8.5	7.5	---	---
31	---	---	6.0	5.0	---	---	10.5	9.5	8.5	8.0	---	---
MONTH	6.0	1.5	7.0	3.0	9.5	4.5	11.0	6.5	12.0	7.0	9.0	
YEAR	12.0	.0										

15106920 KADASHAN RIVER ABOVE HOOK CREEK NEAR TENAKEE

LOCATION.--Lat 57°39'46", long 135°11'06", in NW¼SE¼ sec.34, T.48 S., R.63 E., Greater Sitka Borough, Hydrologic Unit 19060000, on Chichagof Island, in Tongass National Forest, on right bank 0.6 mi above Hook Creek, 3.5 mi upstream from mouth at Kadashan Bay, and 9 mi south of Tenakee.

DRAINAGE AREA.--10.2 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1968 to September 1978, October 1980 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 100 ft, from topographic map. Prior to Oct. 24, 1969, at site 90 ft downstream at different datum; Oct. 24, 1969 to Sept. 30, 1978, at site 75 ft downstream at datum 1.89 ft higher.

REMARKS.--Records fair.

AVERAGE DISCHARGE.--14 years, 63.2 ft³/s, 84.14 in/yr, 45,790 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,850 ft³/s Sept. 14, 1976, gage height, 6.60 ft, site and datum then in use, from rating curve extended above 950 ft³/s on basis of slope-area measurement at gage height 5.8 ft, site and datum then in use, from floodmarks; minimum daily, 3.8 ft³/s Jan. 20, 1978.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 500 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Oct. 25	Unknown	Unknown	Unknown	Feb. 4	0345	768	4.49
Jan. 2	Unknown	*1,220	*5.07	Aug. 25	0945	502	3.95
Jan. 30	1930	722	4.42				

Minimum daily discharge, 6.6 ft³/s Dec. 29-31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	70	60	15	200	174	176	57	60	154	19	22	48
2	91	85	19	800	305	134	46	53	173	19	17	49
3	224	110	22	350	197	84	48	40	79	20	13	43
4	86	120	18	400	473	106	45	33	75	18	14	41
5	75	65	16	140	130	77	39	37	77	17	13	33
6	57	45	15	55	114	77	31	39	57	17	13	25
7	75	37	14	38	286	75	29	42	51	16	15	22
8	80	33	13	32	89	85	40	60	45	14	67	19
9	48	28	12	30	62	72	40	51	42	47	65	18
10	57	26	11	65	48	103	36	51	43	104	27	18
11	88	25	11	125	41	113	35	51	43	67	19	16
12	79	26	10	55	56	80	37	48	43	69	22	15
13	47	25	9.8	33	142	57	43	57	41	33	59	14
14	38	23	9.2	27	80	43	43	61	57	26	24	50
15	32	22	8.7	21	75	35	53	64	78	69	16	114
16	30	20	8.5	18	82	30	36	55	45	234	14	143
17	57	20	8.2	17	167	31	27	52	38	109	12	71
18	302	23	8.0	17	93	62	23	68	35	45	11	46
19	126	23	7.8	17	195	174	26	62	31	33	11	38
20	115	18	7.6	24	141	89	56	60	28	26	30	31
21	84	15	7.4	39	71	48	177	49	28	22	29	25
22	220	16	7.3	32	52	46	87	43	29	20	24	20
23	260	16	7.2	42	41	94	69	41	33	19	16	18
24	380	16	7.1	22	34	99	43	60	30	18	16	17
25	410	14	7.0	24	29	241	30	63	26	17	322	15
26	145	15	6.9	67	26	108	26	44	53	16	179	14
27	200	36	6.8	220	28	74	26	38	49	15	68	14
28	340	29	6.7	120	47	77	27	53	30	15	38	76
29	100	21	6.6	134	71	73	40	72	24	15	74	46
30	85	17	6.6	365	---	127	44	48	21	23	84	47
31	70	---	6.6	224	---	99	---	47	---	19	75	---
TOTAL	4071	1029	320.0	3753	3349	2789	1359	1602	1558	1201	1409	1146
MEAN	131	34.3	10.3	121	115	90.0	45.3	51.7	51.9	38.7	45.5	38.2
MAX	410	120	22	800	473	241	177	72	173	234	322	143
MIN	30	14	6.6	17	26	30	23	33	21	14	11	14
CFSM	12.8	3.36	1.01	11.9	11.3	8.82	4.44	5.07	5.09	3.79	4.46	3.75
IN.	14.85	3.75	1.17	13.69	12.21	10.17	4.96	5.84	5.68	4.38	5.14	4.18
AC-FT	8070	2040	635	7440	6640	5530	2700	3180	3090	2380	2790	2270

CAL YR 1983 TOTAL 20986.3 MEAN 57.5 MAX 410 MIN 6.6 CFSM 5.64 IN 76.53 AC-FT 41630
WTR YR 1984 TOTAL 23586.0 MEAN 64.4 MAX 800 MIN 6.6 CFSM 6.31 IN 86.01 AC-FT 46780

15106920 KADASHAN RIVER ABOVE HOOK CREEK NEAR TENAKEE--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1967-72, 1974-77, 1981 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: November 1967 to September 1978 and December 1981 to current year.

INSTRUMENTATION.--Temperature recorder from Nov. 3, 1967 to Sept. 30, 1978 and since Dec. 3, 1981.

REMARKS.--Records good. Period of no record due to equipment malfunction.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum recorded, 14.0°C Aug. 2 and 3, 1978; minimum recorded 0.0°C on many days during winter period.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum recorded, 11.5°C August 5, 6, 8, 9, and 25; minimum recorded, 0.0°C Dec. 19-23, Jan. 25-28, 30, 31.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS) (00061)	SPECIFIC CONDUCTANCE (UMHOS) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE (DEG C) (00010)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	ALKALINITY FIELD (MG/L AS CACO3) (00410)
NOV									
09...	1045	28	28	7.6	2.5	762	10.8	79	--
JAN									
10...	1400	68	35	7.1	.5	765	14.0	97	21
APR									
03...	0930	45	45	7.8	3.0	--	13.6	--	24
MAY									
29...	1030	59	90	7.5	6.0	762	12.5	100	53

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	7.0	6.5	4.0	4.0	1.5	1.0	---	---	1.0	.5	2.0	1.0
2	7.5	7.0	4.0	3.5	1.0	1.0	---	---	1.0	.5	1.5	1.0
3	7.5	7.0	4.5	4.0	1.5	1.0	---	---	1.0	1.0	2.0	1.5
4	7.0	7.0	4.5	4.5	1.5	1.5	---	---	1.5	.5	2.0	1.5
5	7.0	6.5	4.5	4.0	1.5	1.5	.5	.5	1.5	1.0	2.5	2.0
6	6.5	6.5	4.0	3.5	1.5	1.5	.5	.5	2.0	1.0	2.5	2.5
7	6.5	6.5	3.5	3.0	1.5	1.5	.5	.5	1.5	1.0	2.5	2.5
8	6.5	6.5	3.0	2.5	1.5	1.0	.5	.5	1.0	1.0	2.5	2.5
9	6.5	5.0	2.5	2.5	1.0	1.0	.5	.5	1.0	1.0	2.5	2.5
10	5.0	5.0	2.5	2.5	1.0	.5	.5	.5	1.0	1.0	3.0	2.5
11	6.0	5.0	2.5	2.5	.5	.5	.5	.5	1.5	1.0	2.5	2.5
12	6.5	6.0	2.5	2.5	.5	.5	.5	.5	1.5	1.5	3.0	2.5
13	6.0	6.0	3.0	2.5	.5	.5	1.0	1.0	1.5	1.0	3.0	2.5
14	6.0	5.5	3.0	3.0	.5	.5	1.0	.5	1.5	1.0	2.5	2.0
15	5.5	5.0	3.0	3.0	.5	.5	.5	.5	1.5	1.5	2.5	2.5
16	5.0	5.0	3.0	2.5	.5	.5	.5	.5	1.5	1.5	2.5	2.5
17	6.0	5.0	2.5	2.5	.5	.5	.5	.5	1.5	1.0	2.5	2.5
18	6.5	6.0	2.5	2.5	1.0	.5	.5	.5	1.5	1.0	2.5	2.5
19	6.0	6.0	2.5	2.5	.0	.0	.5	.5	1.5	1.0	2.5	2.0
20	6.0	6.0	2.5	2.0	.0	.0	.5	.5	1.5	1.5	2.5	2.0
21	6.0	6.0	2.0	1.5	.0	.0	.5	.5	1.5	1.5	---	---
22	6.0	4.0	1.5	1.5	.0	.0	.5	.5	2.0	1.5	---	---
23	4.0	3.5	1.5	1.5	.0	.0	.5	.5	2.0	1.5	---	---
24	4.5	4.0	1.5	1.5	---	---	.5	.5	2.0	1.5	---	---
25	5.0	4.5	1.5	1.0	---	---	.5	.0	2.0	2.0	---	---
26	4.5	4.0	1.5	1.0	.5	.5	.5	.0	2.0	2.0	---	---
27	4.0	4.0	1.0	1.0	.5	.5	.0	.0	2.0	2.0	---	---
28	5.0	4.0	1.5	1.0	.5	.5	.5	.0	2.0	2.0	---	---
29	4.5	4.5	1.5	1.5	.5	.5	.5	.5	2.0	1.5	---	---
30	4.5	4.5	1.5	1.5	.5	.5	.5	.0	---	---	---	---
31	4.5	4.0	---	---	.5	.5	1.0	.0	---	---	---	---
MONTH	7.5	3.5	4.5	1.0	1.5	.0	1.0	.0	2.0	.5	3.0	1.0

SOUTHEAST ALASKA

15106920 KADASHAN RIVER ABOVE HOOK CREEK NEAR TENAKEE--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	5.0	4.5	6.0	5.5	8.5	8.5	11.0	11.0	9.0	8.5
2	---	---	4.5	4.0	6.0	5.5	9.0	8.5	11.0	10.5	8.5	8.5
3	---	---	4.5	4.0	6.0	6.0	9.0	9.0	11.0	11.0	8.5	8.5
4	3.5	3.5	5.0	4.5	6.0	6.0	9.5	9.0	11.0	11.0	8.5	8.5
5	3.5	3.0	5.0	4.5	6.5	6.0	10.0	9.5	11.5	11.0	8.5	8.5
6	3.5	3.0	5.0	4.0	6.5	6.5	10.5	10.0	11.5	11.0	9.0	8.0
7	3.5	3.0	5.0	4.5	7.0	6.5	11.0	10.5	11.0	11.0	8.5	8.0
8	3.5	3.0	5.0	5.0	7.0	6.5	10.5	10.0	11.5	11.0	8.5	8.0
9	4.0	3.5	5.0	5.0	7.0	6.5	10.0	9.5	11.5	11.0	8.0	8.0
10	4.0	3.5	5.0	5.0	7.5	7.0	10.0	9.5	11.0	11.0	8.5	8.0
11	4.0	3.5	5.5	5.0	7.5	7.5	9.5	9.5	11.0	11.0	8.5	8.0
12	4.0	3.5	5.5	4.5	7.5	7.0	10.0	9.5	11.0	10.5	8.0	7.5
13	4.5	4.0	---	---	7.5	7.5	10.0	9.5	11.0	11.0	7.5	7.5
14	4.0	3.5	---	---	7.5	7.5	9.5	9.5	11.0	10.5	8.5	7.5
15	4.0	3.5	---	---	7.5	7.0	10.5	9.5	11.0	10.5	9.5	8.0
16	4.0	3.5	---	---	7.5	7.0	10.0	9.5	10.5	10.5	9.0	8.5
17	4.0	3.5	---	---	7.5	7.5	9.5	9.0	10.5	10.5	8.5	8.5
18	4.0	3.5	---	---	7.5	7.5	9.5	9.0	11.0	10.5	8.5	8.5
19	4.0	4.0	---	---	7.5	7.5	9.5	9.0	11.0	11.0	8.5	8.5
20	4.5	4.0	---	---	8.0	7.5	9.5	9.0	11.0	10.5	8.5	8.5
21	4.0	3.5	---	---	8.0	8.0	9.5	9.0	10.5	10.5	8.5	8.0
22	4.0	3.5	---	---	8.5	8.0	9.5	9.0	11.0	10.5	8.0	7.5
23	4.0	3.5	---	---	8.5	8.5	9.5	9.0	10.5	10.5	7.5	7.0
24	3.5	3.0	---	---	9.0	8.5	10.0	9.5	10.5	10.5	7.0	6.5
25	3.5	3.0	---	---	9.5	9.0	10.5	10.0	11.5	11.0	6.5	6.0
26	3.5	3.0	---	---	9.0	9.0	10.5	10.0	11.0	10.0	6.0	6.0
27	4.5	3.5	---	---	9.0	8.5	10.0	10.0	10.5	9.0	6.5	6.0
28	4.5	4.0	---	---	9.0	8.5	10.0	10.0	9.0	9.0	7.5	6.5
29	5.0	4.5	---	---	9.0	8.5	10.5	10.0	9.0	8.5	7.5	6.5
30	5.0	4.5	6.0	5.5	9.0	8.5	10.5	10.5	8.5	8.5	7.5	7.5
31	---	---	5.5	5.5	---	---	11.0	10.5	8.5	8.5	---	---
MONTH	5.0	3.0	6.0	4.0	9.5	5.5	11.0	8.5	11.5	8.5	9.5	6.0
YEAR	11.5	.0										

SOUTHEAST ALASKA

15106980 TONALITE CREEK NEAR TENAKEE

LOCATION.--Lat 57°40'42", long 135°13'17", in SW¼ sec.18, T.48 S., R.63 E., Greater Sitka Borough, Hydrologic Unit 19060000, on Chichagof Island, in Tongass National Forest, on right bank 2 mi upstream from mouth and 9 mi south of Tenakee.

DRAINAGE AREA.--14.5 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1968 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 50 ft, from topographic map. Prior to Mar. 23, 1970, at site 40 ft upstream on left bank at datum 0.30 ft higher.

REMARKS.--Records good.

AVERAGE DISCHARGE.--16 years, 96.1 ft^3/s, 90.00 in/yr, 69,620 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,610 ft^3/s Oct. 9, 1979, gage height, 9.72 ft from floodmarks, from rating curve extended above 390 ft^3/s on basis of slope-area measurement of peak flow; minimum daily, 6.0 ft^3/s Jan. 15-19, 1974.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jan. 2	0730	*3,120	*9.01	Feb. 4	0700	1,500	6.26
Jan. 30	2230	1,320	5.88				

Minimum daily discharge, 13 ft^3/s Dec. 25-31.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	105	75	23	232	194	233	89	82	152	30	27	87
2	102	115	25	1210	459	214	71	79	239	30	25	77
3	369	157	30	431	181	102	70	66	127	33	23	70
4	145	155	26	529	762	131	69	57	108	33	25	60
5	133	96	23	190	177	98	64	59	115	29	23	50
6	89	71	22	71	137	97	54	63	89	27	22	42
7	96	57	21	51	458	94	48	67	75	26	23	37
8	104	50	20	41	125	108	52	94	67	25	74	34
9	75	44	19	37	79	101	56	86	63	40	95	33
10	78	40	19	69	62	144	55	84	61	72	40	32
11	121	37	18	125	53	169	56	85	57	59	32	30
12	133	35	18	71	63	121	62	82	53	77	37	28
13	77	35	17	47	134	88	68	87	49	45	68	27
14	63	33	17	38	100	67	67	93	59	38	41	60
15	53	33	16	34	95	55	79	104	77	69	32	95
16	49	29	16	31	100	48	64	96	55	381	28	184
17	56	28	15	29	166	46	52	78	49	204	26	134
18	402	30	15	28	122	85	46	87	47	78	25	78
19	185	30	15	28	285	215	46	91	43	56	26	65
20	152	26	15	28	225	147	75	88	39	43	42	59
21	118	22	14	36	96	77	266	72	37	36	42	47
22	287	22	14	59	68	69	161	64	37	33	39	39
23	335	22	14	149	55	129	117	62	39	31	32	35
24	503	22	14	40	47	141	80	80	36	29	33	33
25	558	20	13	42	41	410	59	111	33	27	492	31
26	211	20	13	108	38	191	52	75	54	26	277	30
27	229	42	13	480	40	119	48	64	56	25	114	29
28	477	45	13	204	66	105	49	76	39	24	64	78
29	137	33	13	139	93	107	60	103	33	23	106	62
30	119	26	13	500	---	141	72	73	32	29	121	53
31	99	---	13	386	---	135	---	64	---	26	108	---
TOTAL	5660	1450	537	5463	4521	3987	2207	2472	2020	1704	2162	1719
MEAN	183	48.3	17.3	176	156	129	73.6	79.7	67.3	55.0	69.7	57.3
MAX	558	157	30	1210	762	410	266	111	239	381	492	184
MIN	49	20	13	28	38	46	46	57	32	23	22	27
CFSM	12.6	3.33	1.19	12.1	10.8	8.90	5.08	5.50	4.64	3.79	4.81	3.95
IN.	14.52	3.72	1.38	14.01	11.60	10.23	5.66	6.34	5.18	4.37	5.55	4.41
AC-FT	11230	2880	1070	10840	8970	7910	4380	4900	4010	3380	4290	3410

CAL YR 1983 TOTAL 31366 MEAN 85.9 MAX 747 MIN 12 CFSM 5.92 IN 80.46 AC-FT 62210
WTR YR 1984 TOTAL 33902 MEAN 92.6 MAX 1210 MIN 13 CFSM 6.39 IN 86.97 AC-FT 67240

15106980 TONALITE CREEK NEAR TENAKEE--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1968 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: June 1968 to current year.

INSTRUMENTATION.--Temperature recorder since June 27, 1968.

REMARKS.--Records good. Period of no record due to equipment malfunction.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum recorded, 14.0°C Aug. 12, 1968; minimum, 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum recorded, 8.0°C Oct. 1, but may have been higher during period of missing record; minimum recorded, 0.5°C Nov. 30 but may have been lower during period of missing record.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS) (00061)	SPECIFIC CONDUCTANCE (UMHOS) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE (DEG C) (00010)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	ALKALINITY FIELD (MG/L AS CACO3) (00410)
NOV 09...	1210	44	57	8.1	2.5	762	12.5	92	28
JAN 10...	1405	75	23	7.2	1.0	765	13.4	94	19
APR 03...	1035	68	46	7.6	3.0	--	13.0	--	34
MAY 29...	1235	93	22	--	6.0	761	11.8	95	19

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1983 TO JUNE 1984

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	8.0	7.0	4.0	3.5	1.5	1.0						
2	7.5	7.0	4.5	4.0	1.5	1.5						
3	7.5	7.5	5.0	4.5	1.5	1.5						
4	7.5	6.0	5.0	4.5	2.0	1.5						
5	7.5	6.5	4.5	4.0	2.0	1.0						
6	7.0	6.5	4.0	3.0	2.0	1.0						
7	7.5	6.0	3.0	2.0	---	---						
8	7.0	5.5	4.0	2.0	---	---						
9	5.5	4.0	2.5	2.0	---	---						
10	6.0	4.5	2.5	2.5	---	---						
11	6.5	6.0	3.0	2.5	---	---						
12	6.5	6.0	3.0	2.5	---	---						
13	7.0	5.5	3.0	3.0	---	---						
14	6.0	5.0	3.0	2.5	---	---						
15	5.5	4.5	4.0	3.0	---	---						
16	5.5	5.0	3.0	2.5	---	---						
17	6.0	5.5	3.0	2.5	---	---						
18	6.5	6.0	2.5	2.5	---	---						
19	6.5	6.0	2.5	1.5	---	---						
20	6.5	6.0	1.5	1.0	---	---						
21	6.5	6.0	1.5	1.0	---	---						
22	6.0	4.5	2.5	1.0	---	---						
23	4.5	4.0	3.0	1.0	---	---						
24	5.0	4.5	2.0	1.0	---	---						
25	5.0	4.5	1.5	1.0	---	---						
26	5.0	4.0	1.5	1.0	---	---						
27	4.5	4.0	1.5	1.0	---	---						
28	5.0	4.5	2.0	1.5	---	---						
29	5.0	4.5	1.5	1.0	---	---						
30	5.0	4.5	1.5	.5	---	---						
31	4.5	4.0	---	---	---	---						
MONTH	8.0	4.0	5.0	.5								

15106980 TONALITE CREEK NEAR TENAKEE--Continued

TEMPERATURE, WATER (DEG. C), JUNE 1984

DAY	MAX	MIN
	JUNE	
1	5.0	3.5
2	5.5	4.0
3	7.0	3.5

15212000 COPPER RIVER NEAR CHITINA

(National stream-quality accounting network station)

LOCATION.--Lat 61°27'56", long 144°27'21", in SW¼NE¼ sec.2, T.5 S., R.5 E., Hydrologic Unit 19050003, on right bank at head of Woods Canyon, 0.5 mi downstream from Taral Creek and abandoned Indian village of Taral, 2.2 mi upstream from Tenas Creek, and 3.5 mi south of Chitina.

DRAINAGE AREA.--20,600 mi², approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July to September 1950, May to November 1952, October 1955 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 400 ft, from topographic map. Prior to June 2, 1952, nonrecording gage at site 0.2 mi upstream at datum 1.4 ft higher.

REMARKS.--Water-discharge records good except those for period of no gage-height record, Oct. 8 to May 22, which are poor. Streamflow augmented by glaciers, which cover 17 percent of the basin.

AVERAGE DISCHARGE.--29 years, 37,660 ft³/s, 24.83 in/yr, 27,280,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 380,000 ft³/s Aug. 8, 1981, gage height, 37.3 ft, from floodmarks, from rating curve extended above 170,000 ft³/s on basis of velocity-area study; minimum daily, about 2,000 ft³/s Mar. 1-31, 1956.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 168,000 ft³/s Aug. 6, gage height, 21.78 ft; minimum daily, about 6,500 ft³/s Jan. 29 to Mar. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43800	17000	11000	8000	6500	6500	7500	13000	31000	99300	126000	58600
2	45800	17000	10000	8000	6500	6500	7500	14000	31000	102000	129000	52300
3	44200	17000	10000	8000	6500	6500	8000	14000	33000	102000	129000	48300
4	41800	17000	10000	8000	6500	6500	8000	15000	34400	99300	134000	45200
5	38400	17000	10000	8000	6500	6500	8000	15000	37000	102000	150000	43000
6	36000	16000	10000	8000	6500	6500	8000	16000	41000	107000	164000	42500
7	33800	16000	10000	7500	6500	6500	8000	17000	43900	117000	162000	41900
8	32000	16000	10000	7500	6500	6500	8000	18000	45400	127000	164000	41100
9	31000	16000	10000	7500	6500	6500	8500	18000	47900	128000	160000	40200
10	33000	16000	10000	7500	6500	6500	8500	19000	51200	123000	162000	38300
11	35000	16000	9500	7500	6500	7000	8500	20000	55600	117000	152000	36800
12	36000	16000	9500	7500	6500	7000	8500	21000	59800	112000	141000	35400
13	38000	16000	9500	7500	6500	7000	9000	22000	66000	111000	128000	33500
14	33000	15000	9500	7500	6500	7000	9000	23000	71800	109000	113000	31900
15	30000	15000	9000	7500	6500	7000	9000	23400	71800	105000	107000	30900
16	27000	15000	9000	7000	6500	7000	9000	25000	69200	103000	105000	30900
17	24000	14000	9000	7000	6500	7000	9000	26000	70500	104000	108000	31900
18	23000	14000	9000	7000	6500	7000	9000	28000	74100	107000	109000	33200
19	23000	14000	9000	7000	6500	7000	9500	29000	77800	104000	108000	29000
20	22000	14000	9000	7000	6500	7000	9500	31000	85800	98900	108000	28000
21	21000	13000	9000	7000	6500	7000	9500	32000	95300	97000	106000	27000
22	20000	13000	9000	7000	6500	7000	10000	34000	104000	98400	101000	27000
23	20000	13000	8500	7000	6500	7000	10000	34300	117000	102000	95800	26000
24	19000	12000	8500	7000	6500	7000	10000	34600	129000	108000	97500	26000
25	18000	12000	8500	7000	6500	7000	11000	37800	132000	115000	103000	26000
26	18000	12000	8500	7000	6500	7000	11000	38900	129000	121000	128000	26000
27	17100	12000	8500	7000	6500	7500	11000	35600	124000	122000	121000	25000
28	17000	11000	8500	7000	6500	7500	12000	33900	114000	127000	98100	25000
29	17000	11000	8000	6500	6500	7500	12000	31600	104000	129000	82400	27000
30	17000	11000	8000	6500	---	7500	12000	31000	101000	128000	71700	30000
31	17000	---	8000	6500	---	7500	---	30500	---	126000	65100	---
TOTAL	871900	434000	286000	226000	188500	214500	278500	781600	2247500	3450900	3728600	1037900
MEAN	28130	14470	9226	7290	6500	6919	9283	25210	74920	111300	120300	34600
MAX	45800	17000	11000	8000	6500	7500	12000	38900	132000	129000	164000	58600
MIN	17000	11000	8000	6500	6500	6500	7500	13000	31000	97000	65100	25000
CFSM	1.37	.70	.45	.35	.32	.34	.45	1.22	3.64	5.40	5.84	1.68
IN.	1.57	.78	.52	.41	.34	.39	.50	1.41	4.06	6.23	6.73	1.87
AC-FT	1729000	860800	567300	448300	373900	425500	552400	1550000	4458000	6845000	7396000	2059000

CAL YR 1983 TOTAL 13939900 MEAN 38190 MAX 142000 MIN 3600 CFSM 1.85 IN 25.17 AC-FT 27650000
WTR YR 1984 TOTAL 13745900 MEAN 37560 MAX 164000 MIN 6500 CFSM 1.82 IN 24.82 AC-FT 27260000

15212000 COPPER RIVER NEAR CHITINA--Continued

WATER-QUALITY RECORDS

PERIODS OF RECORD.--Water years 1950-58, 1963-72, 1974-75, and 1978 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	SAMPLE LOCATION, CROSS SECTION (FT FM L BANK) (00009)	SPECIFIC CONDUCTANCE (UMHOS) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE (DEG C) (00010)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
MAY								
24...	1424	85.0	168	8.0	--	751	11.6	--
24...	1425	230	168	8.1	--	--	--	--
24...	1426	305	165	8.1	--	751	11.6	--
24...	1427	370	165	8.2	--	--	--	--
24...	1428	420	162	8.2	--	751	11.4	--
JUL								
27...	1024	175	144	--	--	--	--	--
27...	1025	295	144	--	--	--	--	--
27...	1027	505	145	--	--	--	--	--
27...	1028	635	155	--	--	--	--	--
AUG								
22...	1250	70.0	--	--	7.0	--	--	--
22...	1251	180	--	--	7.0	--	--	--
22...	1252	270	--	--	7.0	--	--	--
22...	1253	350	--	--	7.5	--	--	--
22...	1254	450	--	--	8.0	--	--	--
22...	1255	550	--	--	8.5	--	--	--
22...	1256	650	--	--	9.5	--	--	--
22...	1400	185	137	8.4	--	--	--	--
22...	1405	305	140	8.4	--	--	--	--
22...	1410	415	142	8.3	--	--	--	--
22...	1415	560	148	8.2	--	--	--	--
22...	1420	625	150	8.2	--	--	--	--
SEP								
05...	1320	160	181	8.1	6.5	746	11.1	92
05...	1321	280	172	8.2	6.5	746	11.2	93
05...	1322	360	175	8.1	6.5	746	11.2	93
05...	1323	460	175	8.0	7.0	746	11.2	94
05...	1324	555	178	8.0	7.0	746	11.2	94

DATE	TIME	STREAM WIDTH (FT) (00004)	STREAMFLOW, INSTANTANEOUS (CFS) (00061)	SPECIFIC CONDUCTANCE (UMHOS) (00095)	PH (STANDARD UNITS) (00400)	TURBIDITY (NTU) (00076)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	HARDNESS (MG/L AS CACO3) (00900)	HARDNESS, NONCARBONATE (MG/L CACO3) (00902)
MAY										
24...	1430	590	36100	165	8.0	140	K2	K3	72	14
JUL										
27...	1030	735	117000	145	--	--	--	--	--	--
AUG										
22...	1430	712	101000	148	8.3	400	K3	<1	68	14
SEP										
05...	1330	638	42900	176	--	95	--	--	80	19

DATE	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	ALKALINITY LAB (MG/L AS CACO3) (90410)	ALKALINITY, CARBONATE IT-FLD (MG/L - CACO3) (99430)	BICARBONATE IT-FLD (MG/L AS HCO3) (99440)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)
MAY										
24...	22	4.0	5.0	2.2	58	57	70	18	5.2	.10
JUL										
27...	--	--	--	--	--	--	--	--	--	--
AUG										
22...	22	3.1	3.2	1.5	54	--	--	15	2.1	<.10
SEP										
05...	25	4.2	4.7	1.5	65	61	74	21	4.0	<.10

K NON-IDEAL COLONY COUNT

15212000 COPPER RIVER NEAR CHITINA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P) (00671)
MAY									
24...	7.5	99	99	--	<.030	2.0	.200	.100	.130
JUL									
27...	--	--	--	<.10	.030	1.5	1.30	.010	.010
AUG									
22...	3.9	76	83	<.10	.030	1.2	.390	<.010	.020
SEP									
05...	6.2	99	100	<.10	<.010	.20	.180	<.010	<.010

DATE	TIME	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)
MAY											
24...	1430	130	1	22	<1	<1	<1	<3	9	120	3
AUG											
22...	1430	50	<1	19	<1	<1	<1	<3	1	10	2
SEP											
05...	1330	70	1	24	<1	<1	<1	<3	3	41	2

DATE	LITHIUM DIS-SOLVED (UG/L AS LI) (01130)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)
MAY										
24...	10	10	<.1	<10	<1	<1	<1	110	<6	24
AUG										
22...	<4	4	<.1	<10	5	<1	<1	110	<6	<3
SEP										
05...	5	7	<.1	<10	4	<1	<1	140	<6	<3

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
MAY					
24...	1424	--	586	--	59
24...	1425	--	755	--	47
24...	1426	--	568	--	59
24...	1427	--	543	--	65
24...	1428	--	531	--	69
24...	1430	36100	597	58200	59
JUL					
27...	1024	--	--	--	70
27...	1025	--	--	--	78
27...	1027	--	--	--	70
27...	1028	--	--	--	82
27...	1030	117000	2040	644000	74
AUG					
22...	1400	--	2080	--	65
22...	1405	--	1700	--	69
22...	1410	--	1600	--	63
22...	1415	--	1120	--	78
22...	1420	--	1000	--	79
22...	1430	101000	1500	409000	69
SEP					
05...	1320	--	419	--	48
05...	1321	--	539	--	35
05...	1322	--	462	--	40
05...	1323	--	305	--	57
05...	1324	--	256	--	66
05...	1330	42900	396	45900	46

SOUTH-CENTRAL ALASKA

15216000 POWER CREEK NEAR CORDOVA

LOCATION.--Lat 60°35'14", long 145°37'05", in SE¼NW¼ sec.8, T.15 S., R.2 W., Hydrologic Unit 19050003, on right bank at old bridge site, 1 mi upstream from Eyak Lake, and 5.5 mi northeast of Cordova.

DRAINAGE AREA.--20.5 mi².

PERIOD OF RECORD.--July to November 1913 (fragmentary), August 1947 to current year.

REVISED RECORDS.--WDR AK-81-1: 1972 (M), 1975 (M), 1980 (P).

GAGE.--Water-stage recorder. Datum of gage is 33.5 ft National Geodetic Vertical Datum of 1929 (river profile survey). July to November 1913, nonrecording gage 0.5 mi upstream at different datum. August 1947 to March 1960, water-stage recorder on left bank at same datum.

REMARKS.--Records good. Streamflow augmented by glaciers, which cover 27 percent of the basin. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--37 years, 249 ft³/s, 164.95 in/yr, 180,400 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge recorded, 5,540 ft³/s Sept. 25, 1949, gage height, 7.65 ft, from rating curve extended above 2,300 ft³/s; minimum, about 5 ft³/s Jan. 29, 1984, result of temporary ice dam upstream.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,020 ft³/s Oct. 11 (1030 hrs), gage height, 5.88 ft, only peak above base of 1,700 ft³/s; minimum, about 5 ft³/s Jan. 29, result of temporary ice dam upstream.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	377	297	87	49	62	45	102	214	283	433	361	182
2	473	308	85	83	59	45	93	187	286	413	354	181
3	320	273	81	90	68	51	89	154	305	380	373	180
4	240	193	77	117	216	96	82	145	327	386	404	187
5	204	160	74	107	172	92	86	131	363	468	404	192
6	199	139	70	90	129	92	79	116	530	540	408	197
7	175	125	68	81	117	90	73	113	420	554	439	203
8	155	115	65	80	87	109	69	132	382	574	414	182
9	150	107	63	72	71	157	66	168	357	536	414	171
10	1010	115	62	84	69	226	63	182	369	531	411	171
11	1890	105	60	104	66	263	61	197	376	508	413	169
12	728	107	59	126	64	196	59	194	397	444	368	155
13	422	98	58	364	63	157	63	192	395	436	331	150
14	306	92	55	448	66	124	66	199	389	399	314	211
15	250	95	55	305	58	107	64	205	361	375	328	410
16	221	94	54	167	59	96	66	209	352	374	338	252
17	231	86	52	126	74	88	63	218	354	390	315	200
18	257	84	52	111	73	82	63	218	371	374	369	191
19	199	81	52	97	63	76	61	245	396	346	612	536
20	201	75	49	86	63	73	82	271	417	325	554	659
21	210	82	48	77	63	69	96	294	433	312	395	266
22	239	91	47	69	58	68	98	279	480	329	341	202
23	222	80	46	61	56	66	88	280	472	340	420	172
24	190	74	46	54	53	64	80	277	514	361	631	155
25	174	71	46	48	51	63	75	270	519	380	1260	152
26	192	78	45	42	49	64	74	253	467	374	707	150
27	166	79	45	45	48	76	73	244	438	352	405	139
28	262	82	45	48	46	71	104	241	394	335	305	153
29	328	80	45	52	46	74	124	258	417	327	252	364
30	314	79	45	98	---	77	168	282	395	360	218	714
31	234	---	45	69	---	92	---	294	---	368	193	---
TOTAL	10539	3545	1781	3450	2169	3049	2430	6662	11959	12624	13051	7246
MEAN	340	118	57.5	111	74.8	98.4	81.0	215	399	407	421	242
MAX	1890	308	87	448	216	263	168	294	530	574	1260	714
MIN	150	71	45	42	46	45	59	113	283	312	193	139
CFSM	16.6	5.76	2.81	5.42	3.65	4.80	3.95	10.5	19.5	19.9	20.5	11.8
IN.	19.12	6.43	3.23	6.26	3.94	5.53	4.41	12.09	21.70	22.91	23.68	13.15
AC-FT	20900	7030	3530	6840	4300	6050	4820	13210	23720	25040	25890	14370

CAL YR 1983 TOTAL 83630 MEAN 229 MAX 1890 MIN 40 CFSM 11.2 IN 151.75 AC-FT 165900
WTR YR 1984 TOTAL 78505 MEAN 214 MAX 1890 MIN 42 CFSM 10.4 IN 142.45 AC-FT 155700

15223900 DUCK RIVER AT SILVER LAKE OUTLET NEAR VALDEZ

LOCATION.--Lat 60°56'59", long 146°31'38", in NE¼NE¼ sec.6, T.11 S., R.7 W., Hydrologic Unit 19050003, in Chugach National Forest, on right bank at the outlet of Silver Lake, 1.9 mi upstream from The Lagoon, and 14.5 mi southwest of Valdez.

DRAINAGE AREA.--25.1 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1982 to November 1984 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 310 ft, from topographic map.

REMARKS.--Water-discharge records fair except those above 100 ft³/s, which are poor. Maximum gage height that gage could record was 7.6 ft, discharge, 1,400 ft³/s.

COOPERATION.--April 1982 to September 1983: Gage-height record and discharge measurements were furnished by representatives of Alaska Power Authority.

EXTREMES FOR CURRENT PERIOD.--April to September 1982: Maximum discharge during period, about 3,000 ft³/s Sept. 19, on basis of runoff comparison with downstream station, Duck River near Tidewater; minimum observed, 20 ft³/s Apr. 9, from discharge measurement.

Water year 1983: Maximum discharge, 1,200 ft³/s Aug. 9, gage height, 7.10 ft, from rating curve extended above 390 ft³/s on basis of runoff comparison with downstream station, Duck River near Tidewater; minimum discharge, 6.6 ft³/s Mar. 8.

Water year 1984: Maximum discharge, about 1,570 ft³/s Oct. 11, on basis of runoff comparison with downstream station, Duck River near Tidewater; minimum discharge, 6.5 ft³/s Dec. 15.

October to November 1984: Maximum discharge during period, 823 ft³/s Oct. 2, gage height, 6.00 ft; minimum discharge, 41 ft³/s Nov. 14.

DISCHARGE, IN CUBIC FEET PER SECOND, APRIL TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							---	30	370	516	447	346
2							---	30	420	470	400	323
3							---	30	440	402	350	330
4							---	30	420	356	314	345
5							---	30	412	346	290	348
6							---	35	401	345	272	788
7							---	35	488	337	264	735
8							---	40	563	351	266	548
9							†20	40	590	341	272	421
10							---	45	669	342	256	346
11							---	50	686	358	247	285
12							---	55	638	346	228	241
13							---	60	599	330	227	507
14							---	70	500	328	226	1090
15							---	80	437	313	220	1900
16							---	85	374	321	213	2000
17							---	90	341	361	202	1900
18							---	100	325	403	190	961
19							---	110	368	392	181	2100
20							---	110	377	377	176	1900
21							---	120	380	365	177	1110
22							---	129	371	348	175	1010
23							---	144	357	343	183	757
24							---	173	365	383	200	496
25							---	258	391	379	215	368
26							---	270	427	356	213	291
27							25	280	457	334	203	274
28							25	270	484	319	201	228
29							30	280	530	358	213	218
30							30	300	507	472	253	248
31							---	330	---	504	347	---
TOTAL							---	3709	13687	11496	7621	22414
MEAN							---	120	456	371	246	747
MAX							---	330	686	516	447	2100
MIN							---	30	325	313	175	218
CFSM							---	4.78	18.2	14.8	9.80	29.8
IN.							---	5.50	20.28	17.04	11.29	33.22
AC-FT							---	7360	27150	22800	15120	44460

† Result of discharge measurement.

SOUTH-CENTRAL ALASKA

15223900 DUCK RIVER AT SILVER LAKE OUTLET NEAR VALDEZ--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	250	58	41	93	44	27	31	114	642	438	334	461
2	233	63	39	89	47	29	31	123	609	424	332	429
3	216	66	38	87	50	17	28	138	527	411	331	389
4	197	66	36	89	50	31	32	143	493	421	335	396
5	183	67	36	74	51	24	41	151	445	426	420	350
6	170	63	34	82	55	21	49	154	439	438	474	296
7	143	59	49	80	57	16	47	158	470	451	434	250
8	132	59	67	75	54	20	42	164	484	437	829	222
9	244	61	79	70	54	25	42	171	482	415	1150	194
10	423	56	81	67	42	25	42	184	470	399	973	171
11	370	56	80	64	39	28	50	191	451	418	726	157
12	358	54	78	60	32	30	60	193	426	457	574	142
13	635	54	80	55	33	31	70	207	405	425	596	133
14	543	52	78	52	37	31	85	229	403	404	599	139
15	408	49	75	50	28	30	75	244	421	393	527	158
16	308	47	72	53	21	30	70	259	459	387	437	159
17	266	44	70	49	21	29	68	277	484	395	372	150
18	233	42	68	54	39	27	66	295	502	461	326	139
19	201	41	65	52	45	26	64	316	547	477	297	131
20	179	39	64	38	45	26	62	325	528	445	264	152
21	153	38	60	28	44	26	62	334	493	411	310	298
22	144	38	59	22	41	25	62	345	459	379	420	463
23	129	37	56	22	41	25	60	354	459	389	415	519
24	112	36	54	28	44	26	61	361	457	381	567	445
25	103	36	52	31	36	26	64	339	470	358	973	347
26	75	36	44	38	42	28	70	330	470	339	947	293
27	62	36	52	39	41	28	77	317	449	323	727	231
28	69	39	66	39	39	30	82	317	429	321	571	205
29	80	41	83	38	---	28	85	366	419	328	465	192
30	70	40	97	38	---	28	100	467	427	335	417	555
31	55	---	97	41	---	31	---	503	---	330	469	---
TOTAL	6744	1473	1950	1697	1172	824	1778	8069	14219	12416	16611	8166
MEAN	218	49.1	62.9	54.7	41.9	26.6	59.3	260	474	401	536	272
MAX	635	67	97	93	57	31	100	503	642	477	1150	555
MIN	55	36	34	22	21	16	28	114	403	321	264	131
CFSM	8.69	1.96	2.51	2.18	1.67	1.06	2.36	10.4	18.9	16.0	21.4	10.8
IN	9.99	2.18	2.89	2.51	1.74	1.22	2.64	11.96	21.07	18.40	24.62	12.10
AC-FT	13380	2920	3870	3370	2320	1630	3530	16000	28200	24630	32950	16200

WTR YR 1983 TOTAL 75119 MEAN 206 MAX 1150 MIN 16 CFSM 8.21 IN 111.33 AC-FT 149000

15223900 DUCK RIVER AT SILVER LAKE OUTLET NEAR VALDEZ--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	589	127	53	35	102	50	66	78	292	399	360	230
2	503	131	51	42	106	46	77	87	292	395	350	200
3	429	132	49	46	106	47	72	88	328	394	335	179
4	344	125	51	46	124	50	70	88	364	379	335	165
5	273	116	51	38	132	53	64	97	414	395	341	150
6	230	103	47	36	123	62	69	98	473	437	332	148
7	200	101	43	25	123	63	64	95	526	484	332	148
8	168	98	39	25	110	69	56	109	488	495	330	144
9	143	95	42	38	75	75	62	111	444	497	328	143
10	231	95	40	49	74	84	61	124	413	485	356	134
11	1140	89	38	57	93	97	61	144	409	457	408	129
12	1420	85	31	63	94	101	58	162	411	423	395	128
13	972	78	39	87	95	101	57	174	410	424	362	126
14	619	75	25	114	95	98	58	185	401	413	323	123
15	444	71	10	136	81	96	55	202	413	397	298	145
16	340	69	12	134	86	96	49	218	428	389	285	165
17	295	65	14	133	89	93	51	229	415	375	272	168
18	255	65	16	136	86	87	62	237	409	373	275	171
19	216	62	17	125	83	82	59	255	415	365	362	200
20	201	55	34	90	81	82	58	285	438	354	468	333
21	188	60	35	64	75	76	61	311	453	335	436	367
22	174	63	17	64	75	74	62	343	470	327	391	325
23	162	57	15	60	74	72	58	348	478	325	439	280
24	158	50	31	60	66	66	62	357	479	328	496	242
25	141	51	53	60	63	74	61	348	504	341	926	213
26	131	53	38	94	62	63	54	330	495	345	1000	198
27	127	53	25	92	58	65	56	322	488	337	773	181
28	130	53	25	92	53	69	58	307	451	328	549	163
29	126	50	25	107	51	63	63	297	446	318	410	199
30	125	51	20	111	---	62	73	292	420	328	336	322
31	123	---	28	106	---	61	---	291	---	356	278	---
TOTAL	10597	2378	1014	2365	2535	2277	1837	6612	12867	11998	12881	5819
MEAN	342	79.3	32.7	76.3	87.4	73.5	61.2	213	429	387	416	194
MAX	1420	132	53	136	132	101	77	357	526	497	1000	367
MIN	123	50	10	25	51	46	49	73	292	318	272	123
CFSM	13.6	3.16	1.30	3.04	3.48	2.93	2.44	8.49	17.1	15.4	16.6	7.73
IN.	15.70	3.52	1.50	3.50	3.76	3.37	2.72	9.80	19.07	17.78	19.09	8.62
AC-FT	21020	4720	2010	4690	5030	4520	3640	13110	25520	23800	25550	11540

CAL YR 1983 TOTAL 78941 MEAN 216 MAX 1420 MIN 10 CFSM 8.61 IN 116.99 AC-FT 156600
WTR YR 1984 TOTAL 73180 MEAN 200 MAX 1420 MIN 10 CFSM 7.97 IN 108.45 AC-FT 145200

DISCHARGE, IN CUBIC FEET PER SECOND, OCTOBER TO NOVEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DAY	OCT	NOV	DAY	OCT	NOV	DAY	OCT	NOV
1	436	110	9	474	71	17	163	51	25	308	75
2	735	102	10	404	70	18	133	51	26	257	74
3	693	93	11	335	64	19	127	46	27	205	72
4	515	91	12	296	53	20	120	50	28	181	70
5	401	92	13	256	49	21	126	77	29	147	70
6	361	89	14	219	45	22	167	83	30	132	68
7	363	80	15	184	54	23	353	82	31	128	---
8	377	79	16	171	53	24	350	81			

OCTOBER TOTAL - 9117 MEAN - 294 MAX - 735 MIN - 120 CFSM - 11.7 IN. - 13.51 AC-FT - 18080
NOVEMBER TOTAL - 2145 MEAN - 71.5 MAX - 110 MIN - 45 CFSM - 2.85 IN. - 3.18 AC-FT - 4250

SOUTH-CENTRAL ALASKA

15223900 DUCK RIVER AT SILVER LAKE OUTLET NEAR VALDEZ--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1982 to November 1984 (discontinued).

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: April 1982 to November 1984.

INSTRUMENTATION.--Temperature recorder since April 1982. Recorder was recording hourly temperatures Apr. 1982 to June 21, 1983. Recorder set to obtain 4 hour interval readings June 22, 1983 to Nov. 1984.

REMARKS.--Period of no record due to equipment malfunction. No cross sections were run during any water year. Several other observations of water temperature were made during the 1984 water year. Water-temperature data prior to Sept. 26, 1983 were obtained from Alaska Power Authority and are published for continuity of data for this site. Accuracy of the data collected prior to Sept. 26, 1983 is undetermined.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum recorded, 14.0°C Aug. 8, 9, 1982 and Aug. 6, 9, 10, 18, 23-26, 28, 1984; minimum recorded, 0.0°C on several days during 1983 and 1984 winter period.

TEMPERATURE, WATER (DEG. C), APRIL TO SEPTEMBER 1982

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	5.5	3.0	---	---	8.5	6.5	13.5	9.5	12.5	10.0
2	---	---	5.5	2.0	---	---	9.0	7.5	---	---	11.5	10.0
3	---	---	5.0	2.5	---	---	8.5	7.0	---	---	11.5	9.0
4	---	---	5.5	3.0	---	---	9.5	8.0	11.5	9.0	11.5	9.0
5	---	---	5.0	3.0	7.0	4.5	10.0	8.5	13.5	11.0	11.5	8.5
6	---	---	5.5	3.5	8.0	5.5	10.5	8.0	14.0	10.5	9.5	8.5
7	---	---	5.0	3.5	8.0	6.0	10.0	7.5	13.5	11.0	10.0	8.0
8	---	---	5.5	2.5	7.5	6.0	11.0	7.5	14.0	11.5	11.0	8.5
9	---	---	4.0	3.0	8.5	6.0	11.5	8.0	14.0	11.0	10.5	9.5
10	---	---	4.0	3.0	7.0	4.5	11.0	8.5	13.5	9.5	10.0	9.0
11	---	---	4.0	3.0	8.5	4.5	11.5	9.0	13.0	9.5	10.0	9.5
12	---	---	4.0	3.0	6.0	5.0	12.0	9.5	12.0	9.5	9.5	8.5
13	---	---	5.5	3.5	7.5	5.0	12.0	8.0	13.0	9.0	8.5	5.5
14	---	---	4.5	3.5	8.0	6.0	12.0	8.0	12.0	10.0	8.0	7.5
15	---	---	4.5	3.5	9.5	5.5	11.5	9.0	12.0	8.5	7.5	5.0
16	---	---	5.5	3.5	9.0	6.0	11.5	8.5	12.5	9.0	8.0	6.5
17	---	---	5.0	3.5	9.5	5.5	11.0	8.0	13.0	10.0	7.5	7.0
18	---	---	4.5	3.5	9.0	5.5	11.0	7.5	14.0	10.5	7.5	6.0
19	---	---	5.0	3.5	9.5	6.0	11.0	7.5	12.5	10.0	7.0	5.0
20	---	---	4.5	3.5	9.5	7.0	11.5	8.0	12.5	9.0	7.0	6.0
21	---	---	6.0	3.5	10.0	6.5	11.5	8.0	12.5	9.5	7.0	4.0
22	---	---	5.5	3.5	10.5	5.5	10.5	9.5	13.5	10.5	7.0	4.5
23	---	---	5.0	3.5	9.0	5.5	11.0	9.0	14.0	11.5	7.5	6.5
24	---	---	5.5	3.5	8.0	6.0	10.5	8.0	14.0	13.5	7.5	6.5
25	---	---	---	---	10.0	6.0	11.0	9.0	14.0	13.0	7.0	6.5
26	---	---	---	---	11.0	7.0	11.0	8.5	14.0	11.0	7.0	6.0
27	3.5	2.5	---	---	10.5	6.0	12.0	7.5	13.5	11.0	7.0	6.0
28	4.0	2.5	---	---	8.5	6.0	11.5	8.0	14.0	12.0	7.5	7.0
29	4.5	2.5	---	---	10.0	6.5	11.0	9.0	13.5	10.5	7.5	7.0
30	5.5	2.5	---	---	10.5	7.5	11.5	9.5	12.5	10.0	7.5	6.5
31	---	---	---	---	---	---	11.0	9.0	12.0	10.0	---	---
MONTH			6.0	2.0	11.0	4.5	12.0	6.5	14.0	8.5	12.5	4.0

15223900 DUCK RIVER AT SILVER LAKE OUTLET NEAR VALDEZ--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	7.0	6.5	4.5	4.0	1.0	.5	1.0	.5	1.0	.0	1.0	.5
2	7.0	6.5	4.0	4.0	1.0	.5	1.0	.5	1.5	.5	1.0	.5
3	7.0	6.5	4.0	4.0	1.0	.5	1.0	1.0	1.5	.5	1.0	.5
4	7.0	6.5	4.0	3.5	1.0	.5	1.5	.5	1.5	.5	1.0	.5
5	6.5	5.0	4.0	3.5	1.0	.5	1.5	1.0	1.5	.5	1.0	.5
6	6.0	5.5	4.0	3.0	1.0	.5	1.0	1.0	1.5	.5	1.0	.5
7	5.5	5.0	4.0	3.5	1.5	.0	1.0	1.0	1.5	1.0	1.0	.5
8	5.5	5.0	4.0	3.5	1.5	.5	---	---	1.5	.5	.5	.5
9	5.5	5.0	4.0	3.0	---	---	---	---	1.0	.0	1.0	.0
10	5.5	5.0	3.0	2.0	1.5	.5	---	---	1.0	.5	.5	.5
11	5.0	5.0	3.0	1.5	1.0	1.0	1.0	---	1.0	.0	1.0	.5
12	5.0	5.0	3.5	1.0	1.5	1.0	.5	---	1.0	.5	1.0	.5
13	5.0	5.0	4.0	3.0	1.5	1.0	---	---	1.0	.5	1.5	.5
14	5.5	5.0	3.5	3.0	1.5	1.0	---	---	1.0	.5	1.0	.5
15	5.5	5.0	3.5	2.0	1.5	1.0	---	---	1.0	.5	1.0	1.0
16	5.0	5.0	3.0	2.5	1.5	1.0	1.0	.5	1.0	.5	1.0	1.0
17	5.5	5.0	2.5	2.5	1.5	1.0	1.0	.5	1.0	.5	1.5	1.0
18	5.0	5.0	3.0	1.0	1.0	1.0	1.0	.5	1.0	.5	1.5	1.0
19	5.0	4.5	2.0	.0	1.0	1.0	1.0	.5	1.0	.5	1.5	1.0
20	5.0	4.5	1.5	1.0	1.0	1.0	1.0	.5	1.0	.5	2.0	1.0
21	4.5	4.5	1.5	1.0	1.0	1.0	1.0	.5	1.0	.5	2.0	1.0
22	4.5	4.5	---	---	1.0	1.0	1.0	.5	---	---	2.0	1.0
23	4.5	4.5	---	---	1.0	1.0	1.0	.5	1.0	.5	2.0	1.0
24	4.5	4.5	---	---	1.0	1.0	1.0	.5	1.0	.5	1.5	1.0
25	5.0	4.0	1.5	1.0	1.0	.5	.5	.5	1.0	.5	1.0	.5
26	4.5	4.0	1.0	.5	1.0	.5	.5	.5	1.0	.5	1.5	.5
27	4.5	4.0	1.5	1.0	1.0	1.0	.5	.5	1.0	.5	1.5	.5
28	4.5	3.5	1.5	.5	1.5	1.0	.5	.5	1.0	.5	2.0	.5
29	4.5	4.0	1.0	.5	1.5	1.0	1.0	.0	---	---	2.0	1.0
30	4.0	3.5	1.0	.5	1.5	1.0	1.0	.5	---	---	2.0	1.0
31	4.0	4.0	---	---	1.0	1.0	1.0	.5	---	---	2.0	1.0
MONTH	7.0	3.5	4.5	.0	1.5	.0	1.5	.0	1.5	.0	2.0	.0

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	2.5	1.0	3.0	2.5	6.0	3.5	11.0	9.0	13.5	11.0	8.5	7.5
2	2.5	1.0	3.0	2.5	5.5	3.5	11.5	7.5	13.0	9.0	9.0	7.5
3	2.5	.5	3.0	2.5	6.0	3.5	10.5	9.0	13.0	8.5	9.0	8.5
4	2.0	1.5	3.0	2.5	6.5	4.0	11.0	10.0	12.5	9.5	9.5	8.5
5	2.0	1.5	3.0	2.5	5.5	3.5	12.0	9.0	12.5	11.5	8.5	7.0
6	2.0	1.5	3.5	2.5	5.5	3.5	12.0	10.0	11.5	10.5	8.0	7.5
7	---	---	4.0	2.5	6.5	4.0	11.0	8.0	12.0	8.0	8.0	7.5
8	---	---	4.0	2.5	8.0	4.5	12.0	10.5	8.5	5.5	8.0	8.0
9	---	---	3.5	2.5	8.5	5.0	11.5	10.0	8.5	8.0	8.5	8.0
10	---	---	3.5	2.5	9.5	6.5	11.0	9.0	9.0	8.0	8.5	8.0
11	---	---	3.5	2.5	10.0	5.5	12.0	10.0	9.5	7.0	8.5	8.0
12	---	---	3.5	3.0	9.0	5.5	11.0	8.0	10.5	10.0	9.0	8.0
13	---	---	3.5	3.0	10.5	6.5	10.5	9.5	11.0	8.5	9.0	9.0
14	---	---	3.5	3.0	10.0	6.5	11.5	8.0	10.0	7.0	9.0	8.5
15	---	---	3.5	3.0	9.5	6.0	10.5	8.0	9.0	7.5	8.5	8.0
16	---	---	3.0	3.0	10.0	6.0	10.5	9.0	9.0	8.0	9.0	8.0
17	---	---	3.5	3.0	8.5	6.0	11.0	10.0	9.5	8.0	8.5	8.5
18	---	---	---	3.0	10.0	6.0	12.5	10.5	9.5	8.0	8.5	8.0
19	---	---	3.5	3.0	11.5	6.0	11.5	10.0	9.0	7.0	8.5	7.0
20	2.0	1.5	4.0	3.0	11.0	7.0	13.0	10.0	9.0	9.0	7.5	6.5
21	2.0	.5	3.5	3.0	11.0	8.0	12.5	9.0	10.0	9.5	7.5	7.0
22	1.5	.5	3.5	3.0	10.0	8.0	12.5	8.5	10.0	9.5	8.0	7.5
23	2.0	1.0	4.0	3.0	10.5	8.0	12.0	10.5	10.0	8.5	7.5	7.5
24	2.5	1.0	3.5	3.0	10.0	7.5	11.5	8.5	9.0	7.5	7.0	7.0
25	2.5	1.5	4.5	3.0	10.0	7.0	12.0	8.5	9.0	7.5	6.5	6.0
26	3.0	2.0	5.5	3.0	10.5	9.0	11.0	9.0	8.5	7.0	5.5	5.0
27	2.5	2.0	5.5	3.0	11.0	10.5	11.5	9.0	8.0	6.5	5.0	5.0
28	2.5	2.0	3.5	3.0	12.0	10.0	12.0	10.5	8.0	6.5	5.0	5.0
29	3.0	2.0	6.5	3.0	10.0	8.0	13.5	12.0	8.5	7.5	5.0	5.0
30	3.5	2.5	6.0	3.5	10.5	8.0	13.0	10.5	9.5	8.0	5.0	4.5
31	---	---	4.5	3.0	---	---	13.5	11.0	10.0	8.5	---	---
MONTH	3.5	.5	6.5	2.5	12.0	3.5	13.5	7.5	13.5	5.5	9.5	4.5
YEAR	13.5	.0										

SOUTH-CENTRAL ALASKA

15223900 DUCK RIVER AT SILVER LAKE OUTLET NEAR VALDEZ--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	5.0	4.5	5.0	5.0	3.5	2.5	1.0	1.0	1.5	1.5	1.0	1.0
2	5.0	5.0	5.0	4.5	2.5	2.0	1.0	1.0	1.5	1.5	1.0	1.0
3	5.0	5.0	5.0	4.5	2.5	1.5	1.0	1.0	1.5	1.0	1.0	.5
4	5.0	5.0	5.0	4.5	2.0	1.5	1.0	1.0	2.5	1.5	1.0	1.0
5	5.0	5.0	5.0	4.5	2.5	1.5	1.5	1.0	2.0	1.5	1.0	1.0
6	5.0	4.5	5.0	4.5	2.0	1.5	1.0	1.0	2.0	1.0	2.0	1.0
7	5.0	4.5	4.5	4.5	1.5	1.5	1.0	1.0	1.5	1.5	2.0	1.5
8	5.0	4.5	5.0	4.5	2.0	1.5	1.0	1.0	2.0	1.5	2.0	1.5
9	5.0	4.5	4.5	4.0	1.5	1.5	1.0	1.0	2.0	1.5	2.5	2.0
10	4.5	4.5	4.5	4.0	1.5	1.0	1.0	1.0	2.0	1.5	2.5	2.0
11	4.5	4.5	4.0	4.0	1.5	1.5	1.0	1.0	1.5	1.0	2.0	2.0
12	4.5	4.5	4.0	4.0	1.5	1.5	1.0	1.0	1.5	1.0	2.0	2.0
13	5.0	4.5	4.0	4.0	1.5	1.5	1.5	1.0	1.5	1.0	2.0	1.5
14	5.0	4.5	4.0	4.0	1.5	1.5	2.5	1.5	1.5	1.0	1.5	1.0
15	5.0	4.5	4.0	4.0	2.0	1.5	3.0	1.5	1.5	1.0	2.0	1.5
16	5.0	4.5	4.0	4.0	1.5	1.0	1.5	1.5	1.5	1.0	1.5	1.5
17	5.0	5.0	4.0	3.5	1.5	1.0	1.5	1.0	1.5	1.0	2.0	1.5
18	5.0	5.0	3.5	3.5	1.5	1.0	2.0	1.0	1.0	1.0	1.5	1.5
19	5.0	5.0	3.5	2.5	1.0	1.0	2.0	1.5	1.0	1.0	2.0	1.5
20	5.5	5.0	3.0	2.5	1.0	1.0	2.0	1.5	1.0	1.0	2.5	1.5
21	5.5	5.0	4.0	3.5	1.0	1.0	2.0	1.5	1.0	1.0	2.0	2.0
22	5.0	5.0	4.0	4.0	1.5	1.0	2.0	1.5	1.0	1.0	2.0	1.5
23	5.5	5.0	4.0	3.0	1.5	1.5	2.0	1.5	1.5	1.0	2.5	1.5
24	5.5	5.0	3.5	2.0	1.5	1.0	2.0	1.5	1.5	1.0	2.0	1.0
25	5.5	5.5	2.5	1.5	1.5	1.0	1.5	1.5	1.0	.5	2.0	1.5
26	5.5	5.0	2.5	1.5	1.0	1.0	2.0	1.0	1.5	1.0	2.0	2.0
27	5.0	5.0	2.5	1.5	1.0	1.0	2.0	2.0	1.0	1.0	2.0	1.5
28	5.0	5.0	2.0	1.5	1.0	1.0	2.0	1.5	1.5	1.0	2.0	1.5
29	5.0	5.0	2.5	1.5	1.0	1.0	1.5	1.5	1.0	.5	2.5	1.5
30	5.0	5.0	3.0	1.5	1.5	1.0	2.0	1.5	---	---	2.0	1.5
31	5.0	5.0	---	---	1.0	1.0	2.0	1.5	---	---	2.0	1.5
MONTH	5.5	4.5	5.0	1.5	3.5	1.0	3.0	1.0	2.5	.5	2.5	.5

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	1.5	1.5	4.5	4.0	9.5	8.0	12.0	10.5	11.0	9.5	8.5	7.5
2	2.5	1.5	4.5	4.0	9.5	8.0	11.5	10.0	11.0	9.5	7.5	7.5
3	2.0	1.5	4.5	4.0	10.5	7.5	12.0	12.0	12.0	9.0	8.5	7.5
4	2.0	1.5	4.5	4.0	10.0	9.0	12.0	9.0	11.5	10.0	9.0	8.5
5	2.0	2.0	4.5	4.5	10.0	8.5	11.5	9.0	11.5	10.0	9.0	8.5
6	2.0	2.0	5.0	4.5	10.0	9.0	11.5	9.5	12.0	10.5	9.5	9.0
7	2.0	1.5	5.5	4.5	10.5	9.0	12.0	9.5	13.0	10.5	9.5	9.0
8	2.5	1.5	5.0	3.5	10.5	9.5	12.5	10.0	13.5	12.0	10.0	9.5
9	2.0	1.5	5.0	4.5	11.0	10.0	13.0	11.0	14.0	13.0	10.0	9.5
10	2.0	2.0	5.0	4.5	12.5	10.5	13.0	12.5	14.0	12.0	9.5	9.0
11	2.5	2.0	4.5	4.5	10.5	9.0	12.0	10.0	13.5	10.0	10.0	9.5
12	3.0	2.0	5.0	4.5	11.0	10.0	13.0	10.5	12.5	9.5	10.0	9.5
13	3.0	2.5	5.5	4.5	11.5	11.0	12.5	10.5	12.5	10.5	10.0	10.0
14	3.5	3.5	5.0	4.5	11.5	10.0	12.5	9.5	13.0	10.5	10.0	8.5
15	3.5	3.5	5.0	4.5	11.5	10.0	12.5	9.5	12.5	10.5	9.5	8.0
16	3.5	3.0	4.5	4.5	11.5	10.5	12.0	10.0	12.5	10.0	9.5	8.5
17	3.5	2.5	4.5	4.5	10.0	8.5	12.5	11.0	12.0	11.0	9.5	8.5
18	3.5	2.5	6.5	5.0	10.5	9.0	13.0	12.0	12.5	9.5	9.5	9.0
19	3.5	3.0	6.5	5.5	10.0	9.0	12.5	11.0	9.5	8.5	9.0	8.5
20	3.5	3.0	7.5	5.0	10.0	9.0	12.0	11.0	11.0	9.5	9.0	8.0
21	3.5	3.0	9.5	8.0	11.5	9.5	12.0	10.0	11.0	10.0	8.5	7.5
22	4.0	3.0	9.0	8.0	11.5	9.0	10.5	10.0	11.5	11.0	8.5	8.0
23	3.5	3.5	8.5	7.5	11.5	10.0	11.5	10.0	11.5	11.0	8.5	8.0
24	3.5	3.0	9.0	6.5	12.0	10.5	10.5	9.5	11.5	9.0	8.5	8.0
25	4.0	3.5	10.0	8.5	11.5	10.0	12.0	10.5	9.0	8.5	8.5	8.0
26	3.5	3.5	9.5	3.5	11.5	10.5	11.5	10.5	9.5	9.0	8.5	8.0
27	4.0	3.0	9.5	9.0	12.5	10.5	11.5	11.0	8.0	4.5	8.5	8.0
28	4.0	3.5	9.5	8.0	13.0	10.0	13.5	12.0	7.5	6.5	8.0	8.0
29	4.5	4.0	9.5	8.0	12.5	11.0	13.5	12.0	8.5	7.5	7.5	6.5
30	4.5	4.0	9.5	8.0	12.5	10.0	13.0	12.0	8.5	8.0	7.0	6.5
31	---	---	10.0	8.5	---	---	13.5	10.5	8.5	7.5	---	---
MONTH	4.5	1.5	10.0	3.5	13.0	7.5	13.5	9.0	14.0	4.5	10.0	6.5
YEAR	14.0	.5										

15223900 DUCK RIVER AT SILVER LAKE OUTLET NEAR VALDEZ--Continued

TEMPERATURE, WATER (DEG. C), OCTOBER 1984 TO NOVEMBER 1984

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	7.0	6.5	4.0	3.5								
2	7.0	7.0	3.5	3.5								
3	7.0	7.0	3.5	3.5								
4	7.0	7.0	3.5	3.5								
5	7.0	7.0	3.5	3.5								
6	7.0	6.5	3.5	3.5								
7	6.5	6.5	3.5	3.5								
8	7.0	6.5	3.5	3.5								
9	6.5	6.0	3.5	3.5								
10	6.5	6.5	3.5	3.5								
11	6.5	6.5	3.5	3.0								
12	6.5	6.0	3.0	3.0								
13	6.0	6.0	2.5	2.0								
14	6.0	6.0	2.5	2.0								
15	6.0	5.5	2.5	1.5								
16	6.0	5.5	2.0	1.5								
17	5.0	5.0	2.0	1.0								
18	5.0	4.5	2.0	1.5								
19	5.0	5.0	1.0	.0								
20	5.0	5.0	2.0	.5								
21	5.0	5.0	2.5	2.0								
22	5.0	4.5	2.5	1.5								
23	5.0	4.5	2.0	1.0								
24	5.0	4.5	1.5	1.0								
25	4.5	4.5	1.5	1.5								
26	4.5	4.0	.5	.0								
27	4.0	4.0	1.0	.5								
28	4.0	3.5	---	---								
29	4.0	3.5	---	---								
30	4.0	4.0	---	---								
31	4.0	3.5	---	---								
MONTH	7.0	3.5	4.0	.0								

15224000 DUCK RIVER NEAR TIDEWATER NEAR VALDEZ
(Formerly published as Duck River near Ellamar)

LOCATION.--Lat 60°56'40", long 146°33'40", in SW¼NE¼ sec.1, T.11 S., R.8 W., Hydrologic Unit 19050003, in Chugach National Forest, on right bank 0.2 mi upstream from mouth and 15.5 mi southwest of Valdez.

DRAINAGE AREA.--26.7 mi^2.

PERIOD OF RECORD.--June to December 1913 (monthly discharge only, published in WSP 1372, published as "near Ellamar"), April 1982 to November 1984 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 40 ft, from topographic map. May 12 to Dec. 28, 1913, nonrecording gage read periodically, at site 600 ft upstream from mouth and at different datum.

REMARKS.--Water-discharge records fair.

COOPERATION.--April 1982 to September 1983: Gage-height record and discharge measurements were furnished by representatives of Alaska Power Authority.

EXTREMES FOR PERIOD OF RECORD.--Maximum and minimum discharges not determined for 1913 records. Extremes for current period are shown below.

EXTREMES FOR CURRENT PERIOD.--April to September 1982: Maximum discharge during period, 3,440 ft^3/s Sept. 19, gage height, 8.56 ft, from rating curve extended above 960 ft^3/s; minimum observed, 28 ft^3/s Apr. 9, from discharge measurement.

Water year 1983: Maximum discharge, 1,220 ft^3/s Aug. 9, gage height, 7.14 ft; minimum daily, about 19 ft^3/s Mar. 7.

Water year 1984: Maximum discharge, 1,720 ft^3/s Oct. 11, gage height, 7.57 ft; minimum, 21 ft^3/s Dec. 25, but may have been lower during period of ice effect, Dec. 26 to Jan. 1.

October to November 1984: Maximum discharge during period, 799 ft^3/s Oct. 2, gage height, 6.65 ft; minimum, 53 ft^3/s Nov. 20.

DISCHARGE, IN CUBIC FEET PER SECOND, APRIL TO SEPTEMBER 1982
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1							---	45	435	656	534	475
2							---	47	515	595	467	447
3							---	47	535	508	418	466
4							---	47	530	454	382	480
5							---	49	515	440	357	493
6							---	51	498	436	332	1050
7							---	57	603	427	330	957
8							---	61	677	436	328	752
9							†28	72	710	431	337	606
10							---	81	782	436	324	516
11							---	90	802	457	305	450
12							---	93	767	444	292	399
13							---	98	721	431	282	788
14							---	101	621	426	280	1540
15							---	108	536	410	278	1890
16							---	113	472	425	271	2610
17							---	121	420	471	255	1910
18							---	131	410	514	244	1430
19							---	140	461	489	239	2790
20							---	150	480	469	236	2390
21							---	155	484	457	236	1670
22							---	162	462	439	236	1450
23							---	183	444	431	245	1050
24							---	200	449	473	268	757
25							---	230	475	466	288	575
26							---	256	512	439	288	472
27							42	271	540	410	288	419
28							46	275	588	397	282	359
29							46	282	650	440	303	322
30							46	302	635	576	361	340
31							---	355	---	609	465	---
TOTAL	---	---	---	---	---	---	---	4373	16729	14492	9751	29853
MEAN	---	---	---	---	---	---	---	141	558	467	315	995
MAX	---	---	---	---	---	---	---	355	802	656	534	2790
MIN	---	---	---	---	---	---	---	45	410	397	236	322
CFSM	---	---	---	---	---	---	---	5.28	20.9	17.5	11.8	37.3
IN.	---	---	---	---	---	---	---	6.09	23.31	20.19	13.59	41.59
AC-FT	---	---	---	---	---	---	---	8670	33180	28740	19340	59210

† Result of discharge measurement.

15224000 DUCK RIVER NEAR TIDEWATER NEAR VALDEZ--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	326	93	51	96	44	30	31	133	800	588	387	491
2	291	96	50	95	48	30	31	159	750	562	382	474
3	248	93	47	92	50	27	29	175	650	526	364	450
4	215	89	42	90	50	32	35	185	600	553	362	447
5	180	82	41	86	50	26	43	187	560	573	463	388
6	162	82	40	90	54	22	48	185	540	588	491	331
7	145	77	62	89	58	19	47	182	580	582	441	292
8	142	78	77	83	58	22	45	190	600	597	787	267
9	286	77	86	77	54	26	42	203	610	538	1190	233
10	464	71	85	72	52	26	43	213	600	515	1060	212
11	407	70	85	65	46	28	48	219	560	567	782	195
12	378	69	85	63	40	29	54	222	520	582	641	182
13	664	71	86	60	31	30	60	236	500	560	681	207
14	580	70	85	56	28	30	70	261	500	504	675	197
15	450	67	82	52	25	30	64	283	500	464	593	195
16	361	63	78	55	24	29	62	312	520	479	480	194
17	314	59	77	47	22	29	58	323	580	529	410	168
18	268	57	74	52	36	28	54	338	620	581	381	166
19	242	54	72	50	43	27	51	342	680	577	349	172
20	224	49	70	46	44	26	51	348	640	552	320	180
21	197	47	69	30	42	26	52	370	600	495	372	302
22	175	47	67	23	39	26	56	387	560	461	458	487
23	161	46	64	23	38	26	59	404	560	425	470	552
24	150	46	62	28	41	26	62	402	558	436	592	502
25	140	48	59	32	37	27	69	382	570	432	516	387
26	123	48	56	36	41	28	81	370	567	416	1020	320
27	111	47	58	40	39	28	93	362	564	399	778	270
28	110	48	82	40	38	30	103	360	542	380	620	236
29	108	49	96	39	---	29	108	400	539	407	487	219
30	101	51	104	38	---	29	120	500	569	404	450	532
31	95	---	99	40	---	31	---	600	---	401	493	---
TOTAL	7818	1944	2191	1785	1172	852	1769	9233	17539	15673	17495	9248
MEAN	252	64.8	70.7	57.6	41.9	27.5	59.0	298	585	506	564	308
MAX	664	96	104	96	58	32	120	600	800	597	1190	552
MIN	95	46	40	23	22	19	29	133	600	380	320	166
CFSM	9.44	2.43	2.65	2.16	1.57	1.03	2.21	11.2	21.9	19.0	21.1	11.5
IN.	10.89	2.71	3.05	2.49	1.63	1.19	2.46	12.86	24.44	21.84	24.37	12.88
AC-FT	15510	3860	4350	3540	2320	1690	3510	18310	34790	31090	34700	18340

WTR YR 1983 TOTAL 86719 MEAN 238 MAX 1190 MIN 19 CFSM 8.91 IN 120.82 AC-FT 172000

NOTE.--No gage-height record Jan. 14 to Apr. 19.

SOUTH-CENTRAL ALASKA

15224000 DUCK RIVER NEAR TIDEWATER NEAR VALDEZ--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	630	164	62	34	74	55	76	105	334	426	327	245
2	538	178	60	40	70	43	76	99	338	387	312	215
3	435	175	54	43	68	42	76	97	396	388	308	197
4	347	161	49	51	91	45	72	100	450	384	323	199
5	295	127	51	40	92	47	75	98	453	385	331	190
6	271	116	50	40	92	56	77	97	502	431	362	187
7	227	109	48	38	91	55	84	100	537	478	342	182
8	211	106	51	38	87	60	89	108	494	509	346	190
9	190	116	56	40	81	65	95	119	439	522	349	175
10	263	120	51	42	80	73	72	133	428	497	326	168
11	1170	120	48	43	89	77	70	150	420	422	364	171
12	1430	95	45	45	97	85	75	164	431	407	353	146
13	1000	87	44	74	99	85	66	175	468	399	333	138
14	650	83	42	92	72	84	79	186	499	362	308	171
15	461	92	39	105	64	84	78	200	455	361	294	201
16	383	89	38	103	67	84	71	217	447	372	283	216
17	368	81	37	100	72	81	70	239	424	373	289	192
18	349	71	37	97	65	84	77	254	416	381	308	187
19	326	65	36	95	82	75	72	281	422	362	345	218
20	288	61	34	91	66	69	91	297	441	330	434	348
21	264	72	34	87	57	70	98	323	479	314	403	377
22	213	73	34	83	58	75	71	357	517	319	374	330
23	185	65	33	77	55	70	68	370	534	332	422	285
24	211	59	31	72	51	71	63	357	557	312	490	252
25	184	57	29	69	48	84	61	350	559	337	962	226
26	159	58	28	69	48	65	62	342	548	357	1100	211
27	175	53	27	69	51	69	61	338	522	346	780	195
28	158	50	27	66	54	69	70	353	491	342	550	175
29	157	51	26	69	48	74	77	330	449	315	403	210
30	151	55	25	75	---	72	95	342	438	319	328	331
31	143	---	29	70	---	72	---	353	---	338	292	---
TOTAL	11832	2809	1255	2057	2069	2140	2267	7034	13888	11807	12741	6528
MEAN	382	93.6	40.5	66.4	71.3	69.0	75.6	227	463	381	411	218
MAX	1430	178	62	105	99	85	98	370	559	522	1100	377
MIN	143	50	25	34	48	42	61	97	334	312	283	138
CFSM	14.3	3.51	1.52	2.49	2.67	2.58	2.83	8.50	17.3	14.3	15.4	8.17
IN.	16.48	3.91	1.75	2.87	2.88	2.98	3.16	9.80	19.35	16.45	17.75	9.09
AC-FT	23470	5570	2490	4080	4100	4240	4500	13950	27550	23420	25270	12950

CAL YR 1983 TOTAL 90662 MEAN 248 MAX 1430 MIN 19 CFSM 9.29 IN 126.31 AC-FT 179800
WTR YR 1984 TOTAL 76427 MEAN 209 MAX 1430 MIN 25 CFSM 7.83 IN 106.48 AC-FT 151600

DISCHARGE, IN CUBIC FEET PER SECOND, OCTOBER TO NOVEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DAY	OCT	NOV	DAY	OCT	NOV	DAY	OCT	NOV
1	455	135	9	476	89	17	180	61	25	326	83
2	755	129	10	419	83	18	168	58	26	284	78
3	676	121	11	370	80	19	150	56	27	246	74
4	522	111	12	330	74	20	144	54	28	209	70
5	400	106	13	301	68	21	149	88	29	190	67
6	362	106	14	268	66	22	189	101	30	164	65
7	374	101	15	236	60	23	370	90	31	146	---
8	395	97	16	206	61	24	354	87			

OCTOBER TOTAL - 9814 MEAN - 317 MAX - 755 MIN - 144 CFSM - 11.9 IN. - 13.67 AC-FT - 19470
NOVEMBER TOTAL - 2519 MEAN - 84.0 MAX - 135 MIN - 54 CFSM - 3.15 IN. - 3.51 AC-FT - 5000

15224000 DUCK RIVER NEAR TIDEWATER NEAR VALDEZ--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--April 1982 to October 1984 (discontinued).

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: April 1982 to October 1984.

INSTRUMENTATION.--Temperature recorder since Apr. 1982. Recorder was recording hourly temperatures Apr. 1982 to June 23, 1983. Recorder set to obtain 4 hour readings June 23, 1983 to Oct. 1984.

REMARKS.--Period of no record due to equipment malfunction. No cross sections were run during any water year. Several other observations of water temperature were made during the period of record. Water temperature data prior to Sept. 26, 1983 were obtained from Alaska Power Authority and are published for continuity of data for this site. Accuracy of the data collected prior to Sept. 26, 1983 is undetermined.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum recorded, 15.0°C Aug. 26, 1982; minimum recorded, 0.0°C on many days during 1983 and 1984 winter periods.

TEMPERATURE, WATER (DEG. C), APRIL TO SEPTEMBER 1982

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	6.0	2.5	9.5	6.5	9.0	7.5	13.0	10.5	12.5	11.0
2	---	---	7.0	2.5	6.5	5.0	9.5	8.5	12.0	10.0	12.0	10.5
3	---	---	6.5	2.5	8.0	5.0	9.5	8.0	13.5	10.0	11.5	10.0
4	---	---	5.5	3.0	---	6.0	10.5	8.0	13.0	10.0	11.5	10.0
5	---	---	5.5	3.0	8.0	5.5	11.0	8.5	14.0	12.0	11.0	9.0
6	---	---	6.5	3.5	8.5	7.0	11.0	9.5	14.0	11.0	10.0	9.0
7	---	---	5.5	3.5	8.0	7.0	11.5	8.5	13.0	11.0	9.5	9.0
8	---	---	6.5	3.5	8.0	7.5	11.5	8.5	13.5	11.5	11.0	9.5
9	---	---	4.5	3.5	9.0	7.5	13.0	9.0	14.0	11.5	10.5	10.0
10	---	---	4.5	3.5	8.5	5.5	11.5	9.5	13.5	11.0	10.0	9.5
11	---	---	6.0	3.5	8.0	5.0	12.0	10.0	14.0	11.0	10.5	10.0
12	---	---	5.0	3.5	8.0	5.5	12.0	10.5	12.5	10.0	10.0	9.0
13	---	---	7.5	3.5	7.5	6.0	13.0	9.0	13.5	10.0	9.0	7.0
14	---	---	5.5	3.5	8.0	7.0	---	---	12.5	10.0	8.5	8.0
15	---	---	5.5	4.0	9.5	7.0	12.0	10.0	12.5	9.5	8.5	6.5
16	---	---	6.5	4.0	9.5	8.0	12.0	9.5	14.0	10.0	8.0	7.0
17	---	---	5.5	4.0	10.0	6.5	11.5	8.5	13.5	12.0	8.5	7.5
18	---	---	5.5	4.0	---	---	12.0	8.5	14.5	11.5	8.0	6.5
19	---	---	6.0	4.0	9.5	7.5	12.5	9.0	14.0	11.0	7.5	6.0
20	---	---	6.0	4.0	9.5	8.0	12.5	9.0	14.0	10.0	8.0	7.0
21	---	---	7.0	3.5	10.5	7.5	12.5	9.5	14.0	10.5	---	6.0
22	---	---	7.5	4.0	11.0	7.0	11.5	10.0	14.5	11.5	8.0	6.0
23	---	---	6.0	4.0	10.0	6.5	11.5	10.5	14.0	12.5	7.5	6.5
24	---	---	7.0	4.5	10.5	6.5	11.5	9.0	14.5	14.0	7.5	7.0
25	---	---	7.0	4.5	11.5	7.0	11.5	10.0	14.5	13.5	8.0	7.0
26	---	---	5.0	4.5	11.5	8.0	12.0	9.0	15.0	12.5	7.5	7.0
27	4.5	3.0	5.0	4.5	11.5	7.5	13.0	9.5	14.0	12.0	7.5	7.0
28	5.0	2.5	5.5	4.5	9.0	7.0	13.0	9.5	14.5	13.0	8.0	7.5
29	5.5	2.5	9.0	5.0	11.0	7.0	12.0	10.0	14.0	11.0	7.5	7.5
30	6.5	2.5	7.0	4.5	11.5	8.5	12.0	10.5	13.0	11.0	7.5	7.0
31	---	---	7.5	4.0	---	---	12.0	10.0	12.0	11.0	---	---
MONTH			9.0	2.5	11.5	5.0	13.0	7.5	15.0	9.5	12.5	6.0
YEAR	15.0											

SOUTH-CENTRAL ALASKA

15224000 DUCK RIVER NEAR TIDEWATER NEAR VALDEZ--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1982 TO SEPTEMBER 1983

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	8.0	7.0	4.5	3.5	1.5	1.0	2.5	2.0	2.0	1.5	2.0	1.0
2	7.5	7.0	4.5	3.0	1.0	.0	2.5	1.0	2.0	1.5	2.0	.5
3	7.5	7.0	4.5	4.0	.5	.0	2.0	1.5	2.0	2.0	1.5	.0
4	7.5	6.5	4.5	4.0	1.0	.0	1.5	.0	2.5	2.0	2.5	1.0
5	7.0	6.0	4.0	3.5	1.5	1.0	1.0	.5	2.0	2.0	2.0	1.0
6	6.5	6.0	3.5	3.0	2.0	1.5	1.5	1.0	2.0	1.5	2.0	.5
7	6.0	5.5	3.5	3.0	2.0	.5	1.5	1.0	2.5	1.0	1.5	.0
8	6.0	5.5	4.0	2.0	2.0	2.0	1.0	.5	2.5	1.0	1.5	.0
9	6.0	5.5	4.0	2.5	---	---	.5	.0	2.0	1.5	2.5	.5
10	6.0	5.5	2.5	2.0	2.0	1.5	.5	.0	1.5	1.0	2.5	1.5
11	6.0	5.5	3.5	2.0	2.0	2.0	.0	.0	1.5	1.0	3.0	2.0
12	6.0	5.5	3.5	2.0	2.0	1.0	.0	.0	1.5	.5	2.5	1.5
13	6.0	5.5	4.0	3.5	2.0	1.5	.0	.0	2.0	.5	3.0	1.5
14	6.0	5.5	4.0	3.0	2.0	1.0	---	---	2.0	1.0	3.0	2.0
15	5.5	5.5	3.0	2.0	2.0	2.0	---	---	1.5	.5	3.0	2.0
16	5.5	5.5	3.0	2.0	2.5	2.0	2.5	2.0	1.0	.5	3.0	1.5
17	6.0	5.5	2.0	1.5	2.5	1.5	2.0	1.5	1.5	.5	2.5	1.5
18	5.5	5.5	2.0	1.0	1.5	1.5	2.5	1.0	2.5	.5	3.0	1.0
19	5.5	5.5	1.0	.0	1.5	1.5	2.0	1.5	2.5	2.0	3.0	1.0
20	5.5	4.5	1.5	.5	2.0	1.0	2.0	1.0	2.5	2.0	3.0	1.0
21	5.0	4.5	2.0	1.0	1.0	.5	1.0	1.0	2.5	2.0	3.0	1.0
22	5.0	4.5	2.0	2.0	.5	.5	1.0	.5	---	---	3.0	1.0
23	5.0	4.5	2.0	2.0	1.5	.5	1.0	.5	2.5	1.5	3.0	1.0
24	5.0	4.5	2.0	2.0	2.0	1.5	1.5	1.0	3.0	2.0	3.5	2.0
25	5.0	4.0	2.0	2.0	2.0	1.0	1.5	.5	2.5	1.0	3.5	2.0
26	4.0	3.5	2.0	2.0	2.0	1.0	1.0	.5	2.5	2.0	4.0	1.5
27	4.0	3.0	2.0	2.0	2.0	1.0	1.0	.5	2.0	1.5	4.0	2.5
28	4.0	3.5	2.0	1.5	2.0	.5	1.5	1.0	2.5	1.5	4.0	2.0
29	4.5	4.0	2.0	1.5	2.0	1.5	1.5	1.0	---	---	4.0	2.0
30	4.5	3.5	2.0	1.0	2.5	2.0	1.5	1.0	---	---	4.0	2.0
31	4.0	3.5	---	---	2.5	2.0	2.0	1.5	---	---	4.5	2.5
MONTH	8.0	3.0	4.5	.0	2.5	.0	2.5	.0	3.0	.5	4.5	.0

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	5.0	2.5	5.5	2.5	---	---	12.5	10.0	14.0	12.5	9.5	8.5
2	4.5	1.5	4.5	3.0	---	---	13.0	9.0	13.5	10.5	10.0	9.0
3	4.0	2.5	4.5	3.5	---	---	12.5	10.0	14.5	10.5	10.0	9.5
4	3.0	1.5	4.5	3.5	---	---	13.0	11.5	13.0	12.0	11.0	9.0
5	2.5	2.0	5.0	3.5	---	---	13.0	10.5	13.5	12.5	9.5	8.5
6	3.5	2.5	5.5	3.5	---	---	13.0	11.5	12.5	12.0	9.0	8.0
7	---	---	6.0	4.0	---	---	12.5	10.0	13.0	9.5	9.0	8.0
8	---	---	6.0	3.5	---	---	13.0	11.5	10.0	7.0	9.0	8.5
9	---	---	5.5	4.0	---	---	12.5	12.0	10.0	9.5	9.5	8.5
10	---	---	5.5	4.0	---	---	12.0	10.5	10.5	9.0	9.5	9.0
11	---	---	5.5	4.0	---	---	12.5	11.5	11.0	9.0	10.0	8.5
12	---	---	5.5	4.0	---	---	12.0	9.5	11.5	11.0	10.0	8.5
13	---	---	5.5	4.5	---	---	12.0	10.0	11.5	10.0	10.0	9.5
14	---	---	5.5	4.5	---	---	12.5	9.5	11.0	8.5	9.5	9.5
15	---	---	5.0	4.5	---	---	12.0	9.0	10.0	8.5	9.5	8.5
16	---	---	5.0	4.5	---	---	12.5	10.0	10.5	9.0	9.5	8.5
17	---	---	5.0	4.5	---	---	12.5	11.5	11.0	9.0	9.5	8.5
18	---	---	5.0	4.5	---	---	13.0	12.5	11.5	9.0	9.5	8.5
19	---	---	---	---	---	---	12.5	12.0	10.5	8.0	9.0	8.0
20	3.5	2.5	6.0	4.5	---	---	13.0	12.0	10.5	10.0	8.5	7.5
21	4.0	3.0	5.0	4.5	---	---	13.0	10.5	11.0	10.5	8.5	8.0
22	4.0	1.5	5.5	4.5	12.0	9.0	13.5	10.0	11.0	10.5	8.5	8.0
23	4.5	2.5	5.5	4.5	---	---	12.5	11.5	11.0	10.0	8.5	8.0
24	5.5	2.5	5.0	4.5	12.0	9.0	13.0	10.0	10.5	9.0	8.0	7.5
25	5.5	3.0	5.5	4.5	12.0	9.0	13.0	10.0	10.0	8.5	7.0	6.5
26	6.0	3.0	7.0	5.0	11.5	10.0	13.0	10.0	9.5	8.5	6.0	5.5
27	5.5	3.0	---	5.0	12.5	12.0	13.0	10.0	9.5	7.5	5.5	5.5
28	4.5	3.0	---	---	13.0	11.0	13.0	11.0	10.0	7.5	6.0	5.5
29	4.5	3.5	---	---	12.0	10.0	14.5	13.0	10.0	9.0	6.0	6.0
30	6.0	2.5	---	---	12.0	9.5	13.5	13.0	10.0	9.5	6.5	6.0
31	---	---	---	---	---	---	14.0	13.0	10.0	9.5	---	---
MONTH	6.0	1.5	7.0	2.5	13.0	9.0	14.5	9.0	14.5	7.0	11.0	5.5
YEAR	14.5	.0										

15224000 DUCK RIVER NEAR TIDEWATER NEAR VALDEZ--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	6.0	5.5	5.0	4.5	4.0	3.5			---	---	2.0	1.5
2	6.0	6.0	5.0	5.0	3.0	2.5			---	---	1.5	1.0
3	6.0	5.5	5.0	4.5	2.5	2.5			---	---	2.0	1.5
4	5.5	5.5	5.0	4.5	2.5	2.5			---	---	2.0	1.5
5	6.0	5.5	4.5	4.5	3.0	2.5			---	---	2.5	1.5
6	5.5	5.0	4.5	4.5	2.0	2.0			---	---	1.5	.0
7	5.5	5.0	4.5	4.5	2.0	1.5			---	---	2.0	.0
8	5.0	5.0	4.5	4.5	2.0	1.5			---	---	2.5	1.5
9	5.0	5.0	4.5	4.5	2.0	2.0			---	---	2.5	2.0
10	5.5	5.0	5.0	4.5	2.0	2.0			1.0	.0	3.0	2.5
11	5.5	5.5	4.5	4.5	2.0	1.5			1.5	1.0	3.0	2.0
12	5.5	5.5	4.5	4.5	1.5	1.5			1.5	1.5	2.5	2.0
13	5.5	5.5	4.5	4.0	2.0	1.5			2.0	1.5	2.5	1.5
14	5.5	5.0	4.5	4.0	2.0	.5			1.5	1.0	2.5	1.5
15	5.5	5.0	4.5	4.0	.5	.0			2.0	1.0	2.5	2.0
16	5.5	5.0	4.5	4.0	1.5	.5			1.5	1.5	2.5	2.0
17	5.5	5.5	4.0	3.5	1.5	.5			2.0	1.0	2.5	2.0
18	5.5	5.0	4.0	3.5	1.0	.5			2.0	1.5	2.5	1.5
19	.5	5.0	3.5	3.0	1.0	.5			1.5	1.5	2.5	1.5
20	5.5	5.5	3.5	2.5	2.0	1.5			1.5	.5	3.0	2.0
21	5.5	5.0	4.0	3.5	---	---			1.5	1.0	2.5	1.5
22	5.5	5.0	4.5	4.0	---	---			1.5	1.0	2.5	1.5
23	5.0	5.0	4.0	3.0	---	---			2.0	1.5	2.5	1.0
24	5.0	5.0	3.0	2.0	---	---			2.0	1.0	3.0	2.0
25	5.0	5.0	3.0	2.0	---	---			2.0	1.5	3.5	2.0
26	5.0	4.5	3.0	2.5	---	---			2.5	1.5	3.0	2.5
27	5.0	4.5	3.0	3.0	---	---			2.0	1.5	---	---
28	5.0	5.0	3.0	2.5	---	---			2.0	1.5	---	---
29	5.0	4.5	3.0	2.5	---	---			2.0	1.5	---	---
30	5.0	4.5	3.0	3.0	---	---			---	---	---	---
31	5.0	4.5	---	---	---	---			---	---	---	---
MONTH	6.0	4.5	5.0	2.0	4.0	.0			2.5	.0	3.5	.0

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1					---	---	11.5	10.5	12.0	9.5	8.5	7.5
2					---	---	11.0	10.0	11.5	10.5	8.0	7.0
3					---	---	11.5	10.5	11.5	9.5	8.5	7.5
4					---	---	11.5	10.0	12.0	9.0	9.0	8.5
5					---	---	11.5	8.5	12.0	9.5	9.5	8.0
6					---	---	11.5	9.5	12.0	11.0	9.5	8.5
7					---	---	12.0	9.5	13.0	10.5	9.5	9.0
8					---	---	12.0	9.5	13.5	12.0	10.0	9.0
9					10.5	9.5	12.5	11.5	13.5	12.0	10.0	9.0
10					11.0	10.0	12.0	11.5	12.5	12.0	9.5	8.5
11					10.5	8.5	12.0	10.5	13.0	11.5	10.5	9.0
12					10.0	9.0	11.5	10.0	12.5	10.0	10.0	9.0
13					10.5	10.0	12.0	10.0	12.5	10.0	10.5	9.5
14					10.5	9.5	11.5	9.5	13.0	12.0	9.5	8.5
15					10.0	8.5	11.5	10.0	13.0	11.0	9.5	8.0
16					9.5	9.0	11.5	9.0	12.5	11.0	10.0	9.0
17					9.5	8.5	---	---	12.0	11.0	9.5	9.0
18					10.0	8.0	---	---	12.5	11.0	10.0	9.5
19					10.0	7.5	---	---	10.0	8.5	9.5	9.0
20					10.0	8.0	11.5	11.0	11.0	9.5	9.0	8.5
21					11.0	8.5	11.0	10.0	11.0	10.0	9.0	8.0
22					11.0	9.0	10.5	10.0	11.5	11.0	9.0	8.5
23					10.5	8.5	11.5	10.0	11.5	11.0	9.0	8.5
24					11.0	10.5	11.0	9.0	11.5	9.0	10.0	8.5
25					10.5	9.5	11.5	10.0	9.0	8.5	8.5	8.5
26					11.0	9.5	11.5	10.5	10.5	9.0	9.0	8.0
27					11.0	9.5	12.0	11.0	8.0	4.5	8.5	8.5
28					11.5	9.5	12.5	11.5	8.0	6.0	8.5	8.5
29					11.0	10.0	12.5	11.5	8.5	7.0	8.5	7.0
30					11.5	10.0	12.0	12.0	8.5	8.0	7.5	7.0
31					---	---	12.5	11.5	8.0	7.5	---	---
MONTH					11.5	7.5	12.5	8.5	13.5	4.5	10.5	7.0
YEAR	13.5	.0										

15224000 DUCK RIVER NEAR TIDEWATER NEAR VALDEZ--Continued

TEMPERATURE, WATER (DEG. C), OCTOBER 1984

DAY	MAX	MIN	DAY	MAX	MIN
	OCTOBER			OCTOBER	
1	7.5	7.0	10	7.0	6.5
2	7.5	7.5	11	6.5	6.5
3	7.5	7.5	12	6.5	6.5
4	7.5	7.0	13	6.5	6.0
5	7.5	7.5	14	6.5	6.5
6	7.5	7.0	15	6.5	6.0
7	7.0	7.0	16	6.5	6.0
8	7.0	7.0	17	6.0	5.5
9	7.0	6.5			

15224002 DUCK RIVER ABOVE THE LAGOON NEAR VALDEZ

WATER-QUALITY RECORDS

LOCATION.--Lat 60°56'36", long 146°33'45", in NW¼SE¼ sec.1, T.11 S., R.8 W., Hydrologic Unit 19050003, in Chugach National Forest, on right bank about 500 ft upstream from mouth and 15.5 mi southwest of Valdez.

PERIOD OF RECORD.--April 1982 to March 1984 (discontinued).

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: April 1982 to March 1984.

INSTRUMENTATION.--Temperature recorder since Apr. 1982. Recorder was recording hourly temperatures Apr. 1982 to June 22, 1983. Recorder set to obtain 4 hour interval readings June 22, 1983 to Mar. 1984.

REMARKS.--Period of no record due to equipment malfunction. No cross sections were run during any water year. Several other observations of water temperature were made during the 1984 water year. Water-temperature data prior to Sept. 26, 1983 were obtained from Alaska Power Authority and are published for continuity of data for this site. Accuracy of the data collected prior to Sept. 26, 1983 is undetermined.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum recorded, 14.5°C Aug. 3, 1983; minimum recorded, 0.0°C on many days during 1983 winter period.

TEMPERATURE, WATER (DEG. C), APRIL TO SEPTEMBER 1982

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	5.0	2.0	---	---	8.0	7.0	12.0	9.5	11.5	10.5
2	---	---	6.0	2.0	---	---	8.5	7.5	11.5	9.0	11.5	10.5
3	---	---	5.5	2.0	---	---	8.5	7.0	12.5	9.5	11.0	9.5
4	---	---	5.0	2.5	---	---	9.5	7.5	12.5	9.5	11.0	9.5
5	---	---	5.0	2.5	---	---	10.0	7.5	13.0	10.5	10.5	8.5
6	---	---	5.5	3.0	---	---	10.0	8.5	13.5	11.0	9.5	8.5
7	---	---	5.0	3.0	---	---	10.5	7.5	12.5	10.5	9.0	8.5
8	---	---	5.5	3.0	---	---	10.5	7.5	13.0	11.5	10.5	9.0
9	---	---	4.0	3.0	---	---	11.5	8.5	13.5	11.0	10.0	9.0
10	---	---	4.0	2.5	---	---	11.0	8.5	13.0	10.5	9.5	9.0
11	---	---	5.0	3.0	---	---	11.0	9.5	13.0	10.5	10.0	9.5
12	---	---	---	---	---	---	11.0	9.5	11.5	9.5	9.5	8.5
13	---	---	---	---	---	---	11.5	8.5	12.5	9.5	9.0	6.5
14	---	---	---	---	---	---	---	---	12.0	9.5	8.5	7.5
15	---	---	---	---	---	---	11.0	9.5	12.0	9.5	8.0	6.0
16	---	---	---	---	---	---	11.5	9.5	13.0	9.0	8.0	6.5
17	---	---	---	---	---	---	11.0	8.5	13.0	11.0	8.0	6.5
18	---	---	---	---	---	---	11.0	8.0	13.5	11.0	7.0	6.5
19	---	---	5.5	3.5	8.5	7.0	11.0	8.5	13.0	10.5	6.5	5.5
20	---	---	5.0	4.0	8.5	7.5	11.5	8.0	13.0	9.5	---	---
21	---	---	---	3.0	9.0	7.0	11.5	8.5	13.0	9.5	---	---
22	---	---	---	3.5	9.5	6.0	10.5	9.0	13.5	11.0	---	---
23	---	---	---	4.0	8.5	6.0	11.0	9.5	13.5	11.5	---	---
24	---	---	---	4.0	9.0	6.0	10.5	8.5	14.0	13.5	---	---
25	---	---	---	4.0	9.5	6.5	11.0	9.0	14.0	13.0	---	---
26	---	---	4.5	4.0	10.0	7.0	11.0	8.5	14.0	12.0	---	---
27	4.0	---	4.5	4.0	9.5	7.0	12.5	8.5	13.5	11.5	---	---
28	4.0	2.0	5.0	4.0	8.5	6.0	12.0	8.5	14.0	12.0	---	---
29	5.0	2.0	---	4.5	10.0	6.0	11.5	9.0	13.5	10.5	---	---
30	5.5	2.0	---	---	10.5	8.5	11.0	10.0	12.0	10.5	---	---
31	---	---	---	---	---	---	11.0	9.0	11.5	10.5	---	---
MONTH							12.5	7.0	14.0	9.0	11.5	5.5

15224002 DUCK RIVER ABOVE THE LAGOON NEAR VALDEZ--Continued

TEMPERATURE, WATER (DEG. C), NOVEMBER 1982 TO SEPTEMBER 1983

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1			---	---	5.5	1.0	2.0	2.0	2.0	1.5	2.0	.5
2			---	---	5.5	.5	2.0	1.0	2.0	1.5	1.5	.5
3			---	---	3.0	.0	2.0	1.5	2.0	2.0	1.5	.0
4			4.5	4.0	1.0	.0	1.5	.0	2.0	2.0	2.0	.5
5			4.0	3.5	1.5	1.0	1.0	.5	2.0	2.0	1.5	.5
6			3.5	3.0	1.5	1.5	1.5	1.0	2.0	1.5	1.5	.5
7			3.5	3.0	1.5	.5	1.5	1.0	2.0	1.0	1.5	.0
8			3.5	2.0	2.0	1.5	1.0	.5	2.0	1.0	1.5	.0
9			4.0	2.5	---	---	.5	.0	1.5	1.0	2.0	.5
10			2.5	2.0	2.0	1.5	.0	.0	1.5	1.0	2.0	1.5
11			3.0	2.0	2.0	1.5	.0	.0	1.0	.5	2.5	1.5
12			3.5	2.0	2.0	1.0	.0	.0	1.0	.5	2.5	1.5
13			4.0	3.5	2.0	1.5	.5	.0	1.5	.0	3.0	1.5
14			3.5	3.0	2.0	1.5	1.5	1.0	1.5	.5	3.0	1.5
15			3.0	2.0	2.0	1.5	2.0	1.0	1.0	.0	3.0	1.5
16			2.5	1.5	2.0	2.0	2.0	1.5	.5	.0	3.0	1.5
17			2.0	1.5	2.0	1.5	2.0	1.5	1.0	.0	2.5	1.0
18			1.5	1.0	1.5	1.5	2.0	1.0	2.0	.5	3.0	1.0
19			1.0	.0	1.5	1.5	2.0	1.5	2.0	1.5	2.5	1.0
20			1.5	.5	2.0	1.5	1.5	1.0	2.5	1.5	3.0	1.0
21			2.0	1.5	1.5	.5	1.0	.5	2.5	2.0	3.0	1.0
22			2.0	1.5	.5	.0	1.0	.5	---	1.5	3.0	1.0
23			2.0	2.0	1.5	.0	1.0	.5	2.0	1.5	3.0	1.0
24			2.0	1.5	1.5	1.5	1.5	.5	2.5	1.5	3.5	1.5
25			2.0	2.0	1.5	.5	1.5	1.0	2.0	1.0	3.5	1.5
26			2.0	1.5	2.0	1.0	4.0	1.5	4.0	1.5	3.5	1.5
27			2.0	1.5	2.0	1.5	4.5	1.5	4.0	1.5	4.0	2.0
28			2.0	1.5	1.5	.5	4.5	1.5	2.0	1.5	4.0	2.0
29			2.5	1.5	2.0	1.5	4.5	1.0	---	---	4.0	1.5
30			5.5	1.0	2.0	1.5	5.0	1.5	---	---	4.0	1.5
31			---	---	2.0	2.0	2.0	1.5	---	---	4.5	2.5
MONTH			5.5	.0	5.5	.0	5.0	.0	4.0	.0	4.5	.0

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	4.5	2.0	5.5	2.5	6.5	5.0	12.0	9.0	13.0	12.0	9.0	8.5
2	4.5	1.5	4.0	3.0	6.0	5.0	12.5	10.0	13.5	11.0	9.5	8.5
3	4.0	2.5	4.0	3.5	6.5	5.0	12.0	9.0	14.5	9.5	10.0	9.0
4	3.0	1.5	4.0	3.5	6.5	6.0	13.0	9.5	13.0	11.5	10.5	9.5
5	2.5	2.0	4.5	3.5	6.5	5.0	12.5	10.5	13.0	12.5	9.5	8.0
6	3.5	.5	5.0	3.5	7.0	5.0	12.5	10.5	12.5	11.5	9.0	8.0
7	---	---	5.5	3.5	8.0	5.5	12.0	9.5	12.5	10.5	8.5	8.0
8	---	---	5.5	3.5	9.0	5.5	12.5	10.0	9.5	7.0	9.0	8.0
9	---	---	5.0	3.5	9.5	6.5	12.5	11.5	9.5	8.5	9.0	8.5
10	---	---	5.0	3.5	10.0	7.0	12.0	10.5	10.0	9.5	9.5	8.5
11	---	---	5.0	4.0	10.0	7.5	12.0	11.5	10.5	8.5	9.5	8.0
12	---	---	5.0	4.0	10.0	7.0	11.5	9.5	11.0	10.5	9.5	8.5
13	---	---	5.5	4.0	10.5	8.0	11.5	9.5	11.0	10.0	9.5	9.0
14	---	---	5.0	4.0	10.5	8.0	12.0	10.0	10.5	9.0	9.5	9.0
15	---	---	5.0	4.0	10.0	8.0	12.0	9.0	10.0	8.0	9.0	8.5
16	---	---	4.5	4.0	10.5	7.5	12.0	9.5	10.0	9.0	9.0	8.0
17	---	---	5.0	4.0	10.0	7.0	12.0	10.0	10.5	9.0	9.5	8.5
18	---	---	4.5	4.0	10.5	7.0	13.0	11.5	11.0	9.0	9.0	8.5
19	---	---	---	4.5	11.0	7.5	12.5	11.5	10.5	7.5	9.0	8.5
20	3.5	2.5	5.5	4.5	11.5	8.5	12.5	11.5	10.0	9.5	8.0	7.0
21	3.5	2.5	5.0	4.5	11.0	9.5	13.0	10.5	10.5	10.0	8.0	8.0
22	3.5	2.5	5.5	4.5	11.0	10.0	13.0	9.5	10.5	10.0	8.5	8.0
23	4.0	2.5	5.0	4.5	11.5	10.0	12.0	11.0	10.5	10.0	8.5	8.0
24	5.0	2.5	5.0	4.0	11.5	8.5	12.5	10.5	10.0	9.5	8.0	7.0
25	5.5	2.5	5.0	4.5	11.5	8.5	13.0	9.5	9.5	8.5	7.0	6.5
26	5.5	3.0	6.5	4.5	11.5	8.5	12.5	9.5	9.0	8.0	6.0	5.5
27	5.5	3.0	5.5	4.5	12.0	11.0	13.0	9.5	9.0	7.5	5.5	5.0
28	4.5	3.0	5.0	4.5	12.0	11.5	12.5	10.0	9.5	7.5	5.5	5.5
29	4.5	3.5	7.5	5.0	11.5	10.0	13.5	12.5	9.5	8.5	6.0	5.5
30	5.5	2.5	7.5	5.0	12.0	9.5	14.0	13.0	10.0	9.0	6.0	5.5
31	---	---	5.5	5.0	---	---	13.5	12.5	10.0	9.5	---	---
MONTH	5.5	.5	7.5	2.5	12.0	5.0	14.0	9.0	14.5	7.0	10.5	5.0
YEAR	14.5	.0										

15224002 DUCK RIVER ABOVE THE LAGOON NEAR VALDEZ--Continued

TEMPERATURE, WATER (DEG. C), OCTOBER 1983 TO MARCH 1984

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	5.5	5.5	4.5	4.0	3.5	3.0	2.0	1.5	2.5	2.0	2.5	1.5
2	6.0	5.5	5.0	4.5	3.5	2.5	2.0	2.0	2.5	2.0	2.0	1.5
3	5.5	5.5	5.0	4.5	2.5	2.5	2.0	2.0	2.5	1.5	2.5	2.0
4	5.5	5.5	5.0	4.5	2.5	2.5	2.0	1.5	2.0	1.5	2.5	2.0
5	5.5	5.5	4.5	4.5	2.5	2.5	1.5	1.0	2.5	2.0	2.5	2.0
6	5.5	5.0	4.5	4.0	2.5	2.0	1.5	1.0	2.0	1.5	2.0	.5
7	5.0	4.5	4.5	4.0	2.0	1.5	1.5	1.0	2.0	1.0	2.0	.5
8	5.0	4.5	4.5	4.5	1.5	1.5	1.0	.5	1.5	1.0	3.0	2.0
9	5.0	5.0	4.5	4.0	2.0	1.5	1.5	1.0	1.0	1.0	3.0	2.5
10	5.5	5.0	4.5	4.5	2.0	1.5	2.0	1.5	1.5	.5	3.0	3.0
11	5.5	5.5	4.5	4.0	2.0	1.5	2.0	1.5	2.0	1.5	3.5	3.0
12	5.5	5.5	4.5	4.0	1.5	1.5	2.0	2.0	2.0	1.5	3.0	2.5
13	5.5	5.0	4.0	4.0	2.0	1.5	2.0	1.5	2.5	2.0	3.0	2.5
14	5.0	5.0	4.0	4.0	2.0	.5	2.5	2.0	2.5	2.0	3.0	2.0
15	5.0	5.0	4.0	3.5	.5	.5	3.0	2.5	2.0	1.5	3.0	2.5
16	5.0	5.0	4.0	4.0	1.5	.5	2.5	2.0	3.0	2.0	3.0	2.0
17	5.5	5.0	3.5	3.5	1.5	1.0	2.5	2.5	3.0	1.5	3.0	2.0
18	5.5	5.0	4.0	3.5	1.0	.5	2.5	2.5	2.5	2.0	3.0	2.0
19	5.5	5.0	3.5	3.0	1.0	.5	2.5	2.0	2.5	2.0	3.0	2.0
20	5.5	5.0	3.0	2.5	2.0	1.5	2.0	1.5	2.0	1.5	3.0	2.0
21	5.0	5.0	4.0	3.0	2.0	2.0	1.5	1.0	2.0	1.5	3.0	2.0
22	5.0	5.0	4.0	4.0	1.5	.5	1.5	1.0	1.5	1.5	3.0	2.0
23	5.0	4.5	4.0	3.0	.5	.5	1.0	1.0	2.5	2.0	3.0	2.0
24	5.0	4.5	3.0	2.5	1.5	.5	1.0	.5	2.0	1.5	3.0	2.0
25	5.0	5.0	2.5	2.0	2.0	1.5	1.0	.5	2.5	1.5	3.5	2.5
26	5.0	4.5	3.0	2.5	1.5	1.0	2.0	1.5	2.5	2.0	---	2.5
27	5.0	4.5	3.0	2.5	1.0	.5	2.0	1.5	2.5	2.0	---	---
28	5.0	4.5	3.0	2.5	1.5	.5	2.0	2.0	2.5	1.5	---	---
29	5.0	4.5	3.0	2.5	1.5	.5	2.5	2.0	2.5	1.5	---	---
30	5.0	4.5	3.0	2.5	.5	.5	2.5	2.5	---	---	---	---
31	4.5	4.5	---	---	1.5	1.0	2.5	2.0	---	---	---	---
MONTH	6.0	4.5	5.0	2.0	3.5	.5	3.0	.5	3.0	.5	3.5	.5

15237020 MAIN BAY CREEK NEAR PORT NELLIE JUAN

LOCATION.--Lat 60°31'08", long 148°05'32", in SW¼SW¼ sec.17, T.5 N., R.8 E., Hydrologic Unit 19050003, in Chugach National Forest, on right bank 300 ft upstream from mouth at head of Main Bay, 0.1 mi southwest of Main Bay Fish Hatchery, 4 mi southeast of Port Nellie Juan, and 27 mi southeast of Whittier.

DRAINAGE AREA.--5.93 mi².

PERIOD OF RECORD.--October 1980 to September 1984 (discontinued).

REVISED RECORDS.--WDR AK-83-1: 1981 (M).

GAGE.--Water-stage recorder. Altitude of gage is 50 ft, from topographic map.

REMARKS.--Records good. At a point about 0.8 mi above station, water is diverted from a lake feeding Main Bay Creek, to fish hatchery located on Main Bay. Discharge data represent the net flow remaining after diversion for fish hatchery. Diversion began Oct. 26, 1982.

COOPERATION.--Records of diversion furnished by State of Alaska, Department of Fish and Game.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 645 ft³/s Aug. 20, 1981, gage height, 3.12 ft; minimum daily, prior to diversion, 5.8 ft³/s Mar. 4, 5, 1982; minimum daily, 0.53 ft³/s Dec. 29-31, 1983; minimum, 0.45 ft³/s Dec. 29, 1983, gage height, 0.14 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 585 ft³/s Sept. 29, gage height, 2.99 ft; minimum daily, 0.53 ft³/s Dec. 29-31; minimum, 0.45 ft³/s Dec. 29, gage height, 0.14 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	56	43	376	17	7.7	6.2	38	160	64	70	25	9.9
2	83	106	231	26	6.8	5.5	29	119	65	86	21	7.5
3	64	103	129	18	8.0	19	24	111	66	80	18	5.7
4	50	78	80	14	18	46	21	92	65	70	16	4.5
5	38	72	60	8.3	14	64	27	71	70	62	15	3.6
6	32	55	48	6.0	11	75	22	60	111	58	13	5.2
7	24	49	37	3.9	8.0	71	18	54	88	54	11	49
8	18	83	29	2.1	6.0	80	15	50	74	52	10	63
9	16	65	22	6.2	4.5	154	12	50	67	60	8.9	55
10	28	153	24	41	3.9	324	12	54	63	80	8.6	42
11	132	142	25	59	3.1	274	12	56	60	110	12	32
12	79	93	20	255	2.6	151	14	55	64	72	9.9	25
13	59	65	16	363	2.9	93	34	55	69	54	7.4	20
14	47	50	12	251	3.3	64	35	55	74	32	5.7	108
15	36	43	9.2	143	2.6	52	29	55	76	53	4.5	325
16	30	38	7.0	86	7.9	42	24	56	80	44	3.7	204
17	63	32	5.0	62	13	33	25	72	66	47	3.5	132
18	78	25	3.5	48	9.6	26	25	113	54	44	28	90
19	59	20	2.6	37	8.3	20	23	107	48	41	190	78
20	55	17	2.0	30	6.8	17	43	96	44	34	152	74
21	77	62	1.7	22	8.6	13	83	124	43	30	100	54
22	96	75	1.2	16	9.9	11	64	103	42	31	115	41
23	75	70	1.1	12	6.8	8.6	52	82	70	34	97	32
24	63	55	.98	9.0	5.2	11	43	72	78	30	83	30
25	51	45	.57	6.2	6.5	12	35	66	84	44	87	209
26	46	58	.67	4.8	6.8	11	36	61	80	46	59	195
27	48	69	.67	3.3	6.2	15	40	60	72	39	45	134
28	71	111	.65	22	5.7	15	55	58	68	43	33	143
29	59	215	.53	74	7.1	25	87	58	60	34	25	452
30	54	357	.53	11	---	21	146	62	56	33	18	431
31	45	---	.53	7.1	---	24	---	67	---	29	13	---
TOTAL	1732	2449	1147.43	1663.9	210.8	1783.3	1123	2354	2021	1596	1238.2	3054.4
MEAN	55.9	81.6	37.0	53.7	7.27	57.5	37.4	75.9	67.4	51.5	39.9	102
MAX	132	357	376	363	18	324	146	160	111	110	190	452
MIN	16	17	.53	2.1	2.6	5.5	12	50	42	29	3.5	3.6
AC-FT	3440	4860	2280	3300	418	3540	2230	4670	4010	3170	2460	6060

CAL YR 1983 TOTAL 21755.43 MEAN 59.6 MAX 376 MIN .53 AC-FT 43150
WTR YR 1984 TOTAL 20373.03 MEAN 55.7 MAX 452 MIN .53 AC-FT 40410

ADJUSTED TO INCLUDE DIVERSION

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	[illegible]	JUL	AUG	SEP
MEAN	78.4	105	59.9	85.7	30.9	80.9	60.8	97.1	[illegible]	70.9	61.1	125
CFSM	13.2	17.7	10.1	14.4	5.21	13.6	10.3	16.4	14.[illegible]	12.0	10.3	21.0
IN.	15.2	19.7	11.6	16.7	5.62	15.7	11.4	18.9	16.1	13.8	11.9	23.4
AC-FT	4818	6236	3685	5270	1777	4975	3620	5970	5096	4358	3757	7416

CAL YR 1983 MEAN 78.8 CFSM 13.3 IN. 180.4 AC-FT 57060
WTR YR 1984 MEAN 77.9 CFSM 13.1 IN. 178.3 AC-FT 56400

15238820 BARBARA CREEK NEAR SELDOVIA

LOCATION.--Lat 59°28'50", long 151°38'42", in SW¼ sec.15, T.8 S., R.14 W., Kenai Peninsula Borough, Hydrologic Unit 19050002, on left bank 0.5 mi upstream from mouth and 3.7 mi northeast of Seldovia.

DRAINAGE AREA.--20.7 mi^2.

PERIOD OF RECORD.--June 1972 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 40 ft, from topographic map. Prior to Nov. 6, 1980, at site 50 ft upstream at same datum.

REMARKS.--Records fair except those for Dec. 10 to Jan. 10 and Jan. 18 to Mar. 1, which are poor. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--12 years, 104 ft^3/s, 68.23 in/yr, 75,350 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,050 ft^3/s Nov. 29, 1983, gage height, 6.08 ft, from rating curve extended above 360 ft^3/s on basis of contracted-opening measurement of peak flow; minimum, 5.4 ft^3/s Apr. 18 and 22, 1982, result of freezeup.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,050 ft^3/s Nov. 29, gage height, 6.08 ft, from rating curve extended as explained above; minimum daily, about 25 ft^3/s Dec. 26 to Jan. 4.

REVISIONS.--The maximum discharge for water year 1982 has been revised to about 700 ft^3/s, Sept. 15, 1982, gage height, 3.3 ft, superseding figure published in the report of 1982.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41	53	658	25	45	35	45	56	125	214	65	80
2	45	52	472	25	45	35	45	55	143	192	62	75
3	52	59	298	25	45	36	45	55	163	170	60	71
4	48	58	215	25	45	40	44	56	188	170	59	68
5	47	53	177	30	45	42	45	54	211	170	58	65
6	46	51	131	30	40	44	44	52	214	170	57	62
7	45	149	110	30	40	43	43	53	222	174	56	60
8	43	329	98	30	40	45	43	56	211	170	54	59
9	45	227	91	30	40	59	43	60	207	157	53	58
10	49	196	80	40	40	75	43	65	196	150	53	56
11	58	174	75	62	40	75	42	69	192	147	57	53
12	64	150	70	535	40	70	43	72	196	131	53	53
13	63	128	60	616	40	70	43	75	222	123	51	57
14	61	115	45	369	40	60	43	77	217	113	50	91
15	59	103	33	247	40	56	43	77	222	101	49	115
16	58	98	30	189	43	55	42	77	214	98	48	105
17	63	93	30	160	45	53	42	85	196	95	47	94
18	61	85	30	130	45	51	41	103	185	91	67	86
19	58	82	30	90	40	50	41	125	174	88	240	86
20	59	86	30	70	40	48	41	131	174	88	158	85
21	69	236	30	55	40	48	42	137	185	86	118	80
22	73	175	30	45	40	47	42	134	177	86	160	74
23	71	157	30	45	35	47	41	131	192	82	128	74
24	68	140	30	45	35	45	40	134	253	79	137	73
25	64	128	30	45	35	45	40	137	370	75	143	73
26	61	113	25	45	35	45	41	137	333	73	123	69
27	59	103	25	45	35	46	43	131	288	74	115	69
28	58	414	25	45	35	46	46	125	250	72	108	74
29	56	1700	25	45	35	47	48	128	254	69	94	89
30	53	1270	25	45	---	45	51	128	242	68	89	125
31	52	---	25	45	---	45	---	125	---	65	84	---
TOTAL	1749	6777	3063	3263	1163	1548	1295	2900	6416	3641	2696	2279
MEAN	56.4	226	98.8	105	40.1	49.9	43.2	93.5	214	117	87.0	76.0
MAX	73	1700	658	616	45	75	51	137	370	214	240	125
MIN	41	51	25	25	35	35	40	52	125	65	47	53
CFSM	2.73	10.9	4.77	5.07	1.94	2.41	2.09	4.52	10.3	5.65	4.20	3.67
IN.	3.14	12.18	5.50	5.86	2.09	2.78	2.33	5.21	11.53	6.54	4.84	4.10
AC-FT	3470	13440	6080	6470	2310	3070	2570	5750	12730	7220	5350	4520

CAL YR 1983 TOTAL 33763 MEAN 92.5 MAX 1700 MIN 23 CFSM 4.47 IN 60.67 AC-FT 66970
WTR YR 1984 TOTAL 36790 MEAN 101 MAX 1700 MIN 25 CFSM 4.88 IN 66.11 AC-FT 72970

15238990 UPPER BRADLEY RIVER NEAR HOMER

LOCATION.--Lat 59°42'15", long 150°42'15", Kenai Peninsula Borough, Hydrologic Unit 19050002, on left bank 1.2 mi downstream of Nuka Glacier terminus, 2.5 mi upstream of mouth at Kachemak Creek, 3.5 mi southeast of Bradley Lake, and 29 mi east of Homer.

DRAINAGE AREA.--About 10 mi². Drainage area varies according to position of glacier terminus. The drainage area became smaller on June 1983 as snowmelt runoff from Nuka Glacier began to flow again into both the Nuka and Bradley River drainage basins.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1979 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 1,200 ft, from topographic map.

REMARKS.--Water-discharge records good except those for Nov. 12 to May 7, which are poor.

AVERAGE DISCHARGE.--5 years, 119 ft³/s, 86,220 acre-ft/yr, not adjusted to account for change in drainage area.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,820 ft³/s Sept. 15, 1982, gage height, 8.98 ft, from rating curve extended above 450 ft³/s; maximum gage height, 13.09 ft Dec. 17, 1981, backwater from ice; no flow Dec. 25, 1979 to Jan. 19, 1980.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,240 ft³/s Aug. 19, gage height, 7.43 ft, from rating curve extended above 450 ft³/s; minimum daily, about 0.6 ft³/s Feb. 19 to Mar. 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	90	14	30	1.0	.80	.60	1.0	3.0	71	136	128	48
2	86	15	20	1.0	.80	.60	1.0	4.0	92	114	145	47
3	60	17	15	1.0	.80	.60	1.0	5.0	94	109	170	58
4	43	17	10	.80	.80	.80	1.0	6.0	125	155	255	56
5	38	16	10	.80	.80	1.0	1.0	8.0	109	191	229	51
6	37	15	9.0	.80	.80	2.0	1.0	10	92	219	209	45
7	25	45	8.0	.80	.80	5.0	1.0	11	88	234	182	50
8	18	135	7.0	.80	.80	15	1.0	13	88	195	166	67
9	23	35	6.0	1.5	.80	25	1.0	15	80	182	191	67
10	81	40	5.0	3.0	.80	30	1.0	22	71	170	162	76
11	128	25	4.0	10	.80	40	1.0	30	76	160	162	73
12	65	19	3.0	30	.80	25	1.0	36	90	160	166	65
13	48	15	2.0	10	.80	15	1.0	38	120	150	145	102
14	39	13	1.5	5.0	.80	8.0	1.0	38	100	140	128	325
15	33	11	1.5	1.5	.80	5.0	1.0	37	109	130	131	325
16	38	10	1.5	1.0	.80	4.0	1.0	39	98	130	131	172
17	60	9.0	1.5	1.0	.80	3.0	1.0	53	92	140	142	115
18	42	8.0	1.5	1.0	.80	2.0	1.0	78	88	140	541	107
19	31	7.0	1.5	1.0	.60	2.0	1.0	92	88	150	1590	90
20	32	7.0	1.5	1.0	.60	2.0	1.0	82	98	150	540	65
21	40	15	1.5	1.0	.60	1.5	1.0	73	98	150	295	53
22	31	20	1.5	1.0	.60	1.5	1.0	69	98	160	382	47
23	25	14	1.5	1.0	.60	1.5	1.0	65	136	180	287	62
24	23	10	1.5	1.0	.60	1.5	1.0	62	213	160	345	100
25	21	7.0	1.5	1.0	.60	1.5	1.0	58	431	130	375	120
26	19	6.0	1.5	1.0	.60	1.5	1.0	51	270	128	246	90
27	18	6.0	1.5	1.0	.60	1.5	1.0	47	179	128	137	86
28	16	100	1.5	1.0	.60	1.5	1.5	47	162	131	96	105
29	15	300	1.5	1.0	.60	1.0	2.0	56	170	114	71	125
30	14	50	1.5	1.0	---	1.0	2.5	53	162	114	60	170
31	14	---	1.5	1.0	---	1.0	---	53	---	122	50	---
TOTAL	1253	1001.0	156.0	84.00	21.00	201.60	33.0	1254.0	3788	4672	7857	2962
MEAN	40.4	33.4	5.03	2.71	.72	6.50	1.10	40.5	126	151	253	98.7
MAX	128	300	30	30	.80	40	2.5	92	431	234	1590	325
MIN	14	6.0	1.5	.80	.60	.60	1.0	3.0	71	109	50	45
AC-FT	2490	1990	309	167	42	400	65	2490	7510	9270	15580	5880

CAL YR 1983 TOTAL 20469.50 MEAN 56.1 MAX 434 MIN .50 AC-FT 40600
WTR YR 1984 TOTAL 23282.60 MEAN 63.6 MAX 1590 MIN .60 AC-FT 46180

NOTE.--No gage-height record Jan. 24 to Mar. 6 and Mar. 30 to Apr. 28.

SOUTH-CENTRAL ALASKA

15238990 UPPER BRADLEY RIVER NEAR HOMER--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1980 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: October to November 1979, March to August 1980, July to September 1981, July to September 1982, and May 1983 to current year.

INSTRUMENTATION.--Temperature recorder since October 1979.

REMARKS.--Periods of no record due to equipment malfunction. Recorded temperatures were found to be within 0.2°C of mean stream temperature based on three cross-sectional measurements, with a maximum variation of 0.8°C observed within the cross section. Several other field observations of water temperature were made during the year.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum recorded, 7.0°C June 22, 1984; minimum recorded, 0.0°C on most days during winter periods.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum recorded, 7.0°C June 22; minimum recorded, 0.0°C on many days during the winter.

TEMPERATURE, WATER (DEG. C), OCTOBER 1983 TO AUGUST 1984

DAY	MAX	MIN
	OCTOBER	
1	2.0	1.5
2	3.0	2.0
11	3.0	2.0

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1			---	---	2.0	.0	2.5	1.5	4.0	2.5		
2			---	---	2.0	.0	3.5	2.0	4.0	2.5		
3			---	---	3.0	.0	4.5	2.0	4.5	2.0		
4			---	---	2.5	.5	5.0	2.5	3.5	2.5		
5			---	---	3.0	.5	4.5	2.0	2.5	2.0		
6			---	---	1.5	.5	4.0	2.0	3.5	1.5		
7			---	---	3.0	.5	4.0	2.0	2.5	1.5		
8			---	---	3.5	.5	2.5	2.0	3.5	1.5		
9			---	---	4.5	.5	3.5	2.5	3.5	2.0		
10			---	---	4.5	1.0	3.5	2.0	3.0	1.5		
11			---	---	5.5	1.0	3.5	2.0	3.5	2.0		
12			---	---	4.5	1.0	3.0	2.0	3.5	1.5		
13			---	---	3.0	1.5	3.5	2.0	3.0	1.5		
14			---	---	3.5	1.5	4.0	2.0	4.0	1.5		
15			---	---	4.0	2.0	5.0	2.0	4.0	2.0		
16			---	---	3.0	2.0	3.5	2.5	4.0	2.0		
17			---	---	5.0	2.0	3.0	2.5	3.0	2.5		
18			.0	.0	6.0	1.5	3.5	2.5	4.0	2.5		
19			.0	.0	6.5	2.0	3.5	2.5	3.5	1.5		
20			.0	.0	6.5	2.5	4.5	2.5	2.0	1.5		
21			.0	.0	6.5	2.5	5.0	3.0	2.0	1.5		
22			.0	.0	7.0	2.5	3.5	3.0	2.5	1.5		
23			.0	.0	5.0	3.5	3.5	3.0	2.0	1.5		
24			.0	.0	3.5	2.5	3.5	2.5	2.5	1.5		
25			.0	.0	3.5	2.0	4.0	2.5	2.5	2.0		
26			.0	.0	3.0	1.5	3.5	2.5	3.0	1.5		
27			.5	.0	4.0	1.5	4.5	2.0	3.0	1.0		
28			1.0	.5	4.0	1.5	4.5	2.5	3.0	1.5		
29			1.0	.5	2.5	2.0	3.5	2.0	---	---		
30			1.5	.5	3.0	1.5	4.5	2.0	---	---		
31			1.5	.5	---	---	3.5	2.5	---	---		
MONTH			1.5	.0	7.0	.0	5.0	1.5	4.5	1.0		

SOUTH-CENTRAL ALASKA

15239000 BRADLEY RIVER NEAR HOMER

LOCATION.--Lat 59°45'20", long 150°51'00", in NE¼SW¼ sec.8, T.5 S., R.9 W., Kenai Peninsula Borough, Hydrologic Unit 19050002, on right bank at Bradley Lake outlet, 3.5 mi upstream from Bradley River tributary, and 26 mi northeast of Homer.

DRAINAGE AREA.--54 mi^2, approximately. Drainage area varies according to position of glacier terminus in headwaters and could be about 4 mi^2 greater.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July to August 1955, October 1957 to current year.

REVISED RECORDS.--WSP 2136: 1960(M), 1965. WDR AK-77-1: 1958, 1961, 1963(M), 1966, 1967, 1970, 1972, 1974, 1976.

GAGE.--Water-stage recorder. Altitude of gage is 1,050 ft, from topographic map. July 13-22, 1955, non-recording lake gage at site 1 mi upstream and July 23 to Aug. 5, 1955, at site 3 mi upstream at different datums. Prior to Nov. 4, 1980 water-stage recorder 800 ft downstream at different datum.

REMARKS.--Records fair, except those for period of no gage-height record, Jan. 4 to Feb. 15, which are poor. Glaciers cover 36 percent of the basin.

AVERAGE DISCHARGE.--27 years, 432 ft^3/s, 313,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,020 ft^3/s Aug. 10, 1979, gage height, 9.46 ft, site and datum then in use; minimum daily, about 16 ft^3/s Mar. 26 to Apr. 25, 1972.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,370 ft^3/s Aug. 20, gage height, 13.60 ft; minimum recorded, 48 ft^3 Mar. 2, but may have been less during period of no gage-height record.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	445	154	972	58	60	50	96	94	347	1140	699	454
2	455	155	685	56	60	50	91	104	369	1030	723	410
3	449	166	509	56	60	51	88	112	397	941	756	381
4	414	169	404	56	60	55	85	117	430	900	831	366
5	351	164	337	54	60	56	83	122	466	963	930	354
6	352	157	283	54	58	58	80	124	479	1020	953	344
7	318	165	244	54	58	60	78	126	484	1080	951	338
8	284	399	215	52	58	67	78	131	494	1100	911	346
9	271	464	191	52	56	90	76	140	496	1080	890	368
10	281	457	173	52	56	167	73	154	491	1030	884	386
11	354	418	163	60	56	256	72	174	482	977	875	400
12	397	360	150	120	56	298	71	192	486	956	852	414
13	385	305	136	300	56	300	70	208	518	919	827	422
14	367	264	123	200	58	283	69	221	572	880	784	523
15	338	248	115	150	58	260	69	230	590	838	747	940
16	318	226	108	100	61	237	69	237	602	801	738	1240
17	333	207	100	80	63	216	68	246	588	773	735	1190
18	337	186	94	70	62	196	67	278	578	748	828	1020
19	320	166	90	60	61	180	66	327	562	728	1850	876
20	306	147	87	60	59	167	65	365	557	707	2300	761
21	305	205	83	58	61	153	64	386	570	714	1940	655
22	302	255	78	58	59	140	64	399	576	741	1610	569
23	283	256	74	58	58	130	66	403	605	772	1440	500
24	257	239	71	58	56	120	67	406	710	781	1280	464
25	232	221	70	58	55	114	66	398	1120	767	1270	475
26	214	209	68	58	53	111	67	388	1540	756	1190	535
27	199	193	66	58	52	109	66	371	1540	733	1000	547
28	190	244	65	58	51	104	69	356	1380	722	831	545
29	183	985	63	60	50	102	74	353	1250	709	693	566
30	172	1380	61	60	---	97	83	355	1200	686	587	634
31	162	---	60	60	---	98	---	351	---	685	509	---
TOTAL	9604	9164	5938	2388	1671	4375	2200	7868	20479	26679	31414	17023
MEAN	310	305	192	77.0	57.6	141	73.3	254	683	861	1013	567
MAX	455	1380	972	300	63	300	96	406	1540	1140	2300	1240
MIN	162	147	60	52	50	50	64	94	347	685	509	338
AC-FT	19050	18180	11780	4740	3310	8680	4360	15610	40620	52920	62310	33770

CAL YR 1983 TOTAL 129393 MEAN 355 MAX 1380 MIN 42 AC-FT 256700
WTR YR 1984 TOTAL 138803 MEAN 379 MAX 2300 MIN 50 AC-FT 275300

15239000 BRADLEY RIVER NEAR HOMER--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1957-60, 1968, 1970-73, and 1979 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: October 1979 to October 1980, August and September 1981, October to August 1982, March 1983 to current year (fragmentary).

INSTRUMENTATION.--Temperature recorder since Oct. 23, 1979.

REMARKS.--Periods of no record due to equipment malfunction. Recorded temperatures were found to be within 0.5°C of mean stream temperature based on one cross-sectional measurement, with no variation observed within the cross section. Several other field observations of water temperature were made during the year.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum recorded, 12.0°C Aug. 20, 1982; minimum recorded, 0.0°C on most days during winter periods.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum recorded, 11.0°C July 28, but may have been higher during period of missing record; minimum recorded, 0.0°C most days during winter period.

TEMPERATURE, WATER (DEG. C), DECEMBER 1983 TO AUGUST 1984

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1					---	---	.5	.0	.0	.0		
2					---	---	.5	.0	.0	.0		
3					---	---	.5	.0	.0	.0		
4					---	---	.5	.0	.0	.0		
5					---	---	.5	.0	.0	.0		
6					---	---	.5	.0	.0	.0		
7					---	---	.5	.0	.0	.0		
8					---	---	.5	.0	.0	.0		
9					---	---	.5	.0	.0	.0		
10					---	---	.5	.0	.0	.0		
11					---	---	.5	.0	.0	.0		
12					---	---	.5	.0	.0	.0		
13					1.5	1.5	.5	.0	.0	.0		
14					1.5	1.5	.5	.0	.0	.0		
15					1.5	.5	.5	.0	.0	.0		
16					.5	.0	.5	.0	.0	.0		
17					.5	.0	.5	.5	.0	.0		
18					1.0	.0	.5	.0	.0	.0		
19					.5	.0	.5	.0	.0	.0		
20					1.0	.5	.0	.0	.0	.0		
21					.5	.5	.0	.0	.0	.0		
22					.5	.5	.0	.0	.0	.0		
23					1.0	.0	.0	.0	.0	.0		
24					1.0	.5	.0	.0	.0	.0		
25					1.0	.5	.0	.0	.0	.0		
26					.5	.0	.0	.0	.0	.0		
27					.5	.0	.0	.0	.0	.0		
28					.5	.0	.0	.0	.5	.0		
29					.5	.0	.0	.0	---	---		
30					.5	.0	.0	.0	---	---		
31					.5	.0	.0	.0	---	---		
MONTH					1.5	.0	.5	.0	.5	.0		

SOUTH-CENTRAL ALASKA

15239000 BRADLEY RIVER NEAR HOMER--Continued

TEMPERATURE, WATER (DEG. C), DECEMBER 1983 TO AUGUST 1984

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1					---	---	7.0	7.0	10.5	10.0		
2					---	---	7.0	7.0	10.5	10.0		
3					---	---	7.5	6.5	---	---		
4					---	---	6.5	6.0	---	---		
5					---	---	6.0	5.5	---	---		
6					4.0	4.0	7.0	6.0	---	---		
7					4.0	3.5	7.0	6.0	---	---		
8					4.0	4.0	7.5	7.0	---	---		
9					4.5	4.0	7.5	6.5	---	---		
10					4.5	4.0	8.0	7.5	---	---		
11					4.0	4.0	8.5	8.0	---	---		
12					5.0	4.0	8.5	8.5	---	---		
13					5.0	4.5	8.5	8.5	---	---		
14					5.0	4.5	---	---	---	---		
15					5.0	5.0	---	---	---	---		
16					5.0	5.0	9.5	9.0	---	---		
17					5.5	5.0	9.0	9.0	---	---		
18					7.5	5.0	9.0	9.0	---	---		
19					5.5	5.0	9.0	9.0	---	---		
20					6.0	5.0	9.0	8.5	---	---		
21					6.5	6.0	9.0	9.0	---	---		
22					7.0	6.0	9.0	9.0	---	---		
23					7.0	6.5	9.0	9.0	---	---		
24					6.5	6.5	9.5	9.0	---	---		
25					7.0	6.5	10.0	9.0	---	---		
26					7.5	6.5	10.0	9.0	---	---		
27					7.0	6.0	10.5	9.5	---	---		
28					7.0	5.5	11.0	10.0	---	---		
29					7.0	6.5	10.5	10.0	---	---		
30					7.5	6.5	10.5	10.0	---	---		
31					---	---	10.5	10.0	---	---		
MONTH					7.5	3.5	11.0	5.5				

15239050 BRADLEY RIVER TRIBUTARY NEAR HOMER

LOCATION.--Lat 59°46'42", long 150°45'15", in NW¼NE¼ sec.2, T.5 S., R.9 W., Kenai Peninsula Borough, Hydrologic Unit 19050002, on left bank 6.0 mi upstream from mouth and 27 mi east of Homer.

DRAINAGE AREA.--9.25 mi^2.

PERIOD OF RECORD.--October 1979 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 2,300 ft, from topographic map.

REMARKS.--Records good except those above 150 ft^3/s, which are fair, and those for Nov. 20 to Mar. 11, which are poor. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--5 years, 51.3 ft^3/s, 75.31 in/yr, 37,170 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge recorded, 908 ft^3/s July 11, 1980, gage height, 8.05 ft, but probably was more during period of no gage-height record, Aug. 10-12, 1980; maximum gage height recorded, 10.28 ft Dec. 26, 1982, backwater from snow; minimum daily discharge, about 2.8 ft^3/s Mar. 8-19, 1983.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 300 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jan. 12	2400	(a)	*9.60	Aug. 19	1430	*b740	7.90
June 25	1430	324	7.37	Aug. 25	1030	330	7.38

a Backwater from snow
b From rating curve extended above 240 ft^3/s

Minimum daily discharge, about 3.4 ft^3/s Feb. 27 to Mar. 3.

DISCHARGE, IN CUBIC FEET PER SECOND WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984 MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	47	12	18	5.8	4.4	3.4	3.8	4.7	20	149	130	62
2	41	12	10	5.8	4.4	3.4	3.8	4.5	27	127	141	57
3	38	14	9.8	5.8	4.4	3.4	3.8	4.5	33	120	152	57
4	34	15	9.6	5.8	4.4	3.6	3.8	4.4	38	127	178	55
5	31	15	9.4	5.8	4.2	4.0	3.8	4.4	40	152	189	53
6	29	13	9.2	5.8	4.2	4.0	3.8	4.5	37	162	168	50
7	27	16	9.0	5.4	4.2	4.0	3.8	4.7	40	165	155	50
8	27	35	8.5	5.4	4.0	4.5	3.8	5.3	45	162	146	60
9	33	16	8.0	5.4	4.0	5.0	3.8	6.0	47	162	149	65
10	43	29	8.0	6.0	4.0	8.0	3.6	7.4	49	149	141	65
11	65	20	7.5	10	4.0	6.0	3.6	8.0	47	149	146	62
12	51	15	7.5	15	3.8	5.3	3.8	9.0	50	149	144	57
13	43	13	7.0	11	3.8	4.9	3.8	9.3	65	135	135	63
14	38	14	7.0	8.0	3.8	4.9	3.8	9.8	68	132	125	158
15	35	13	7.0	6.0	3.8	4.7	3.8	9.8	63	127	122	207
16	34	12	6.5	5.8	3.8	4.5	3.8	9.5	62	130	125	133
17	33	12	6.5	5.8	3.8	4.4	3.8	10	58	130	132	102
18	30	11	6.5	5.8	3.8	4.4	3.8	12	63	135	192	96
19	28	11	6.5	5.6	3.6	4.4	3.8	14	67	138	460	94
20	26	10	6.5	5.4	3.6	4.4	3.8	15	70	138	281	78
21	25	15	6.2	5.4	3.6	4.2	3.8	16	82	149	216	65
22	25	20	6.2	5.0	3.6	4.2	4.0	16	94	165	245	57
23	22	16	6.2	4.8	3.6	4.2	3.8	18	110	165	194	53
24	20	12	6.2	4.6	3.6	4.2	3.8	18	152	146	208	62
25	18	10	6.2	4.6	3.6	4.2	3.8	18	231	130	263	79
26	18	10	6.0	4.6	3.6	4.0	4.0	17	208	125	190	63
27	16	10	6.0	4.6	3.4	4.0	4.2	16	162	120	136	55
28	16	45	6.0	4.6	3.4	4.0	4.9	17	144	115	108	67
29	14	110	6.0	4.6	3.4	5.0	4.9	20	178	112	94	84
30	14	30	6.0	4.6	---	4.0	4.7	20	185	115	79	96
31	12	---	6.0	4.6	---	4.0	---	18	---	125	70	---
TOTAL	933	586	235.0	187.4	111.8	137.2	117.5	350.8	2535	4305	5214	2305
MEAN	30.1	19.5	7.58	6.05	3.86	4.43	3.92	11.3	84.5	139	168	76.8
MAX	65	110	18	15	4.4	8.0	4.9	20	231	165	460	207
MIN	12	10	6.0	4.6	3.4	3.4	3.6	4.4	20	112	70	50
CFSM	3.25	2.11	.82	.65	.42	.48	.42	1.22	9.14	15.0	18.2	8.30
IN.	3.75	2.36	.94	.75	.45	.55	.47	1.41	10.19	17.31	20.97	9.27
AC-FT	1850	1160	466	372	222	272	233	696	5030	8540	10340	4570

CAL YR 1983 TOTAL 14322.0 MEAN 39.2 MAX 245 MIN 2.8 CFSM 4.24 IN 57.59 AC-FT 28410
WTR YR 1984 TOTAL 17017.7 MEAN 46.5 MAX 460 MIN 3.4 CFSM 5.03 IN 68.43 AC-FT 33750

15239070 BRADLEY RIVER NEAR TIDEWATER NEAR HOMER

LOCATION.--Lat 59°48'06", long 150°52'58", in SE¼NE¼ sec.30, T.4 S., R.9 W., Kenai Peninsula Borough, Hydrologic Unit 19050002, on right bank 0.7 mi upstream from mouth, 0.8 mi downstream from Bradley River Tributary, and 25 mi east of Homer.

DRAINAGE AREA.--82 mi², approximately.

PERIOD OF RECORD.--May 1983 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 25 ft, from topographic map.

COOPERATION.--Discharge measurements furnished by representatives of Alaska Power Authority.

REMARKS.--Records good except those for Oct. 1 to Dec. 22, which are fair, and those for Dec. 23 to Apr. 10, which are poor. Flow occasionally affected by high tides. Several observations of water temperature were made during the year.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,280 ft³/s Aug. 19, 1984, gage height, 9.68 ft; minimum daily, about 60 ft³/s Feb. 27 to Mar. 3, 1984.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,280 ft³/s Aug. 19, gage height, 9.68 ft; minimum daily, about 60 ft³/s Feb. 27 to Mar. 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	520	180	1380	66	68	60	120	155	464	1600	931	568
2	540	180	958	64	68	60	120	160	519	1500	966	505
3	520	200	640	64	68	60	110	165	567	1400	1030	468
4	480	200	500	64	68	64	110	165	608	1300	1140	448
5	440	190	420	62	68	68	110	165	662	1400	1300	429
6	410	180	370	62	66	72	100	170	678	1450	1280	411
7	370	230	310	62	66	76	100	173	683	1500	1260	407
8	340	500	270	62	66	82	100	188	702	1600	1190	426
9	330	626	240	62	66	100	95	212	702	1500	1170	456
10	350	590	220	62	66	200	90	242	712	1400	1160	476
11	430	534	200	62	66	300	90	267	687	1350	1170	488
12	460	481	180	180	66	350	86	282	707	1300	1110	496
13	450	410	160	400	66	340	88	303	782	1250	1070	529
14	430	380	160	280	68	310	90	328	835	1200	1010	901
15	390	350	150	180	70	290	88	328	853	1150	950	1590
16	370	330	147	130	70	260	86	328	847	1100	937	1650
17	390	300	137	96	72	240	86	341	810	1100	954	1440
18	400	280	120	86	70	220	83	395	804	1050	1140	1220
19	370	260	111	74	68	200	81	455	778	1000	2830	1080
20	358	240	106	68	68	190	81	496	778	980	3070	922
21	358	320	106	68	68	170	86	516	820	1000	2490	775
22	350	382	102	68	66	160	96	542	847	1050	2220	669
23	330	361	96	68	64	150	83	554	925	1100	1960	600
24	300	325	90	68	64	140	79	567	1130	1050	1800	608
25	270	306	86	68	62	140	77	563	1700	1010	1840	682
26	250	261	84	70	62	130	81	533	2100	1000	1650	692
27	230	236	80	70	60	130	86	492	2000	966	1360	678
28	220	903	76	70	60	130	102	472	1900	943	1110	702
29	210	2400	74	70	60	130	120	480	1800	926	910	809
30	200	2280	70	70	---	120	140	476	1700	892	754	925
31	190	---	68	70	---	120	---	460	---	903	646	---
TOTAL	11256	14415	7711	2946	1920	5062	2864	10973	29100	36970	42408	22050
MEAN	363	481	249	95.0	66.2	163	95.5	354	970	1193	1368	735
MAX	540	2400	1380	400	72	350	140	567	2100	1600	3070	1650
MIN	190	180	68	62	60	60	77	155	464	892	646	407
AC-FT	22330	28590	15290	5840	3810	10040	5680	21760	57720	73330	84120	43740

WTR YR 1984 TOTAL 187675 MEAN 513 MAX 3070 MIN 60 AC-FT 372300

NOTE.--No gage-height record Jan. 19 to Apr. 10.

15239900 ANCHOR RIVER NEAR ANCHOR POINT

LOCATION.--Lat 59°44'50", long 151°45'11", in NE¼ sec.13, T.5 S., R.15 W., Kenai Peninsula Borough, Hydrologic Unit 19050002, on right bank at downstream side of bridge on Sterling Highway and 4.3 mi southeast of Anchor Point.

DRAINAGE AREA.--137 mi².

PERIOD OF RECORD.--June 1964 to September 1973 and annual maximum, water year 1974. September 1978 to current year.

REVISED RECORDS.--WSP 2136: 1965 (M). WDR AK-79-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 168.64 ft National Geodetic Vertical Datum of 1929. Prior to June 5, 1981, on left bank at same datum.

REMARKS.--Records good except those for Dec. 7 to May 17, which are poor. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--14 years, 203 ft³/s, 20.12 in/yr, 147,100 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,050 ft³/s Nov. 29, 1983, gage height, 7.42 ft, from rating curve extended above 3,100 ft³/s; maximum gage height, 10.86 ft at former site, Dec. 3, 1978, backwater from ice; minimum daily discharge, about 28 ft³/s Jan. 1-31, 1969.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 800 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Oct. 11	0130	1,280	4.28	Jan. 12	2400	Ice jam	*8.29
Nov. 8	1130	1,310	4.31	May 9	Unknown	Unknown	Unknown
Nov. 21	1530	843	3.69	Aug. 19	1700	860	3.60
Nov. 29	1100	*6,050	7.42	Aug. 25	0900	927	3.71

Minimum daily discharge, about 50 ft³/s Feb. 26-29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	300	84	1330	70	80	52	150	350	281	113	81	119
2	310	128	685	70	80	54	150	400	257	135	79	111
3	282	120	472	70	78	56	150	410	228	130	76	109
4	200	122	344	70	78	60	150	430	214	112	72	101
5	160	114	310	70	78	65	150	450	209	100	70	96
6	146	118	248	70	76	70	150	475	204	94	69	98
7	128	288	200	70	76	80	147	600	301	88	67	98
8	106	1060	170	70	74	90	149	950	425	91	65	98
9	132	563	150	72	72	125	137	1600	396	100	62	98
10	716	636	130	74	70	150	137	1550	280	100	62	109
11	783	501	110	80	70	170	129	1510	252	215	96	99
12	420	316	95	1500	68	180	125	1300	240	166	99	101
13	294	206	90	1000	66	190	130	1100	215	127	75	99
14	239	160	85	655	64	180	130	950	204	125	66	145
15	211	140	80	327	62	180	130	800	245	124	61	335
16	190	120	78	227	60	170	125	700	397	115	58	246
17	175	100	76	202	60	170	125	630	284	128	58	180
18	214	90	74	165	58	160	125	600	238	122	89	158
19	193	85	74	146	56	160	120	570	205	109	619	186
20	178	105	72	132	56	150	120	634	183	103	388	196
21	190	524	72	110	54	150	115	665	169	97	191	165
22	178	487	72	100	54	150	115	556	158	89	348	143
23	170	352	74	98	52	150	115	629	147	85	308	139
24	150	230	74	96	52	150	120	571	142	88	284	147
25	106	205	76	94	52	150	130	492	139	99	789	283
26	100	208	76	90	50	150	150	428	136	105	355	235
27	94	181	74	88	50	150	180	395	129	94	223	185
28	88	948	74	86	50	150	210	361	122	87	176	186
29	84	4760	72	84	50	150	250	343	112	84	154	234
30	82	3290	72	82	---	150	300	336	110	82	137	286
31	80	---	72	82	---	150	---	296	---	79	127	---
TOTAL	6699	16241	5681	6150	1846	4162	4414	21081	6622	3386	5404	4785
MEAN	216	541	183	198	63.7	134	147	680	221	109	174	160
MAX	783	4760	1330	1500	80	190	300	1600	425	215	789	335
MIN	80	84	72	70	50	52	115	296	110	79	58	96
CFSM	1.58	3.95	1.34	1.45	.47	.98	1.07	4.96	1.61	.80	1.27	1.17
IN.	1.82	4.41	1.54	1.67	.50	1.13	1.20	5.72	1.80	.92	1.47	1.30
AC-FT	13290	32210	11270	12200	3660	8260	8760	41810	13130	6720	10720	9490

CAL YR 1983 TOTAL 64265 MEAN 176 MAX 4760 MIN 57 CFSM 1.29 IN 17.45 AC-FT 127500
WTR YR 1984 TOTAL 86471 MEAN 236 MAX 4760 MIN 50 CFSM 1.72 IN 23.48 AC-FT 171500

15241600 NINILCHIK RIVER AT NINILCHIK

LOCATION.--Lat 60°02'56", long 151°39'48", in NE¼ sec.34, T.1 S., R.14 W., Kenai Peninsula Borough, Hydrologic Unit 19050002, on downstream side of bridge at Ninilchik and 0.9 mi upstream from mouth.

DRAINAGE AREA.--131 mi^2.

PERIOD OF RECORD.--April 1963 to current year.

GAGE.--Nonrecording gage. Altitude of gage is 30 ft, from topographic map. Prior to Oct. 1, 1965, at site 0.2 mi upstream at different datum.

REMARKS.--Records fair except those for Nov. 13 to Apr. 13, which are poor. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--21 years, 107 ft^3/s, 11.09 in/yr, 77,520 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,240 ft^3/s Apr. 24, 1974, gage height, 6.04 ft, from graph based on gage readings; maximum gage height observed, 8.69 ft Apr. 14, 1969, backwater from ice; minimum discharge observed, 30 ft^3/s July 20, 1966, gage height, 3.64 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge observed, 340 ft^3/s Aug. 25, gage height, 4.95 ft; maximum gage height observed, 6.72 ft Mar. 11, backwater from ice; minimum daily discharge, about 38 ft^3/s Feb. 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	136	86	90	48	50	52	110	259	197	76	58	78
2	160	94	90	48	50	54	110	251	176	92	59	74
3	148	99	86	46	48	54	115	272	142	92	61	71
4	136	105	84	44	48	56	115	286	125	80	56	67
5	110	96	82	44	46	58	120	305	99	74	56	67
6	94	82	80	44	46	60	125	259	101	69	59	69
7	86	105	76	46	46	62	130	243	163	64	55	71
8	71	145	72	46	44	64	135	247	243	61	53	69
9	80	139	68	48	42	64	139	259	223	59	52	67
10	223	170	64	50	40	66	142	215	194	67	50	67
11	300	227	60	50	38	68	128	190	160	75	61	67
12	240	223	56	52	40	70	135	173	123	80	61	66
13	208	180	56	52	40	72	145	157	110	78	55	69
14	170	150	54	52	42	74	164	139	105	80	50	73
15	123	130	54	50	42	74	170	131	115	76	50	71
16	94	110	54	48	44	76	176	133	157	69	49	71
17	90	90	54	48	44	78	139	136	186	71	50	71
18	88	80	56	48	44	78	125	131	190	69	73	67
19	90	78	56	46	44	80	113	125	151	67	212	69
20	86	86	56	46	44	82	101	123	115	64	268	76
21	105	150	58	46	46	82	110	120	105	64	219	76
22	94	130	58	44	46	84	101	133	92	64	197	78
23	92	110	58	42	46	86	96	123	86	64	231	74
24	94	90	60	42	48	88	94	136	84	62	259	82
25	74	80	60	42	48	90	94	148	76	62	315	120
26	80	80	60	44	48	92	110	180	73	61	272	125
27	86	90	58	46	48	94	148	247	71	61	219	108
28	99	200	56	48	50	96	176	247	71	59	160	103
29	88	140	54	50	50	98	201	197	71	58	118	128
30	82	100	52	52	---	100	227	183	69	58	99	148
31	88	---	50	52	---	105	---	194	---	58	88	---
TOTAL	3715	3645	1972	1464	1312	2357	3994	5942	3873	2135	3665	2442
MEAN	120	122	63.6	47.2	45.2	76.0	133	192	129	68.9	118	81.4
MAX	300	227	90	52	50	105	227	305	243	92	315	148
MIN	71	78	50	42	38	52	94	120	69	58	49	66
CFSM	.92	.93	.49	.36	.35	.58	1.02	1.47	.99	.53	.90	.62
IN.	1.05	1.04	.56	.42	.37	.67	1.13	1.69	1.10	.61	1.04	.69
AC-FT	7370	7230	3910	2900	2600	4680	7920	11790	7680	4230	7270	4840

CAL YR 1983 TOTAL 31710 MEAN 86.9 MAX 300 MIN 32 CFSM .66 IN 9.00 AC-FT 62900
WTR YR 1984 TOTAL 36516 MEAN 99.8 MAX 315 MIN 38 CFSM .76 IN 10.37 AC-FT 72430

NOTE.--No gage-height record Dec. 15 to Mar. 10.

15258000 KENAI RIVER AT COOPER LANDING

LOCATION.--Lat 60°29'34", long 149°48'28", in SE¼ sec.28, T.5 N., R.3 W., Kenai Peninsula Borough, Hydrologic Unit 19050002, Chugach National Forest, on right bank 10 ft downstream of bridge on Sterling Highway, 0.9 mi east (upstream) of Cooper Landing, Bean Creek, and at Kenai Lake outlet.

DRAINAGE AREA.--634 mi^2.

PERIOD OF RECORD.--May 1947 to current year.

REVISED RECORDS.--WSP 2136: 1964 (M).

GAGE.--Recording gage. Altitude of gage is 419.92 ft National Geodetic Vertical Datum of 1929, (levels by Alaska Department of Transportation). See WSP 2136 for history of changes prior to Aug. 28, 1965. Aug. 28, 1965 to Jan. 21, 1974, nonrecording gage at site 10 ft upstream at present datum. Jan. 22, 1974 to Sept. 30, 1981, nonrecording gage at site 40 ft upstream at present datum.

REMARKS.--Records good. Diversion from Cooper Lake to Kenai Lake above gage through Cooper Lake powerplant began May 1961. Satellite telemetry installed Feb. 15, 1983. Several observations of water temperature were made during the year.

COOPERATION.--Records of diversion furnished by Chugach Electric Association.

AVERAGE DISCHARGE.--37 years, 2,815 ft^3/s, 60.30 in/yr, 2,039,000 acre-ft/yr, adjusted to exclude diversion from Cooper Lake.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 23,100 ft^3/s Sept. 21, 1974, gage height, 17.18 ft, result of release of stored water from glacier-dammed lake at head of unnamed glacier in the Snow River basin; no flow Mar. 27, 28, 1964, caused by earthquake.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 7,830 ft^3/s Aug. 22, gage height, 11.57 ft; minimum, 627 ft^3/s Mar. 4, gage height, 5.87 ft.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2120	1420	1440	740	995	674	989	1080	2890	7090	4970	4440
2	2080	1430	1500	720	981	677	967	1140	2920	6980	4920	4110
3	2040	1420	1520	721	956	673	954	1200	2990	6760	4870	3820
4	2010	1380	1530	682	940	663	961	1240	3110	6540	5010	3670
5	1990	1360	1530	660	940	668	959	1270	3270	6550	5330	3480
6	1930	1350	1500	660	940	656	946	1280	3480	6770	5490	3360
7	1840	1370	1460	660	940	651	930	1300	3690	7100	5720	3240
8	1770	1370	1410	660	933	655	926	1320	3820	7400	5870	3150
9	1770	1380	1360	660	910	682	899	1350	3970	7540	5940	3090
10	1770	1420	1330	662	895	738	888	1400	4060	7480	5990	3050
11	1790	1450	1320	689	884	810	876	1450	4160	7360	6000	3040
12	1870	1480	1280	781	866	885	870	1520	4240	7230	5890	3020
13	1900	1460	1240	971	849	957	870	1580	4330	7050	5780	2980
14	1910	1440	1200	1090	845	1010	863	1640	4410	6800	5620	3200
15	1890	1430	1150	1160	829	1050	867	1720	4510	6540	5470	4220
16	1860	1420	1120	1200	835	1090	867	1800	4590	6300	5390	5150
17	1820	1390	1090	1220	835	1110	866	1860	4620	6090	5310	5610
18	1800	1350	1050	1230	810	1110	867	1950	4640	5880	5250	5640
19	1760	1290	1040	1240	772	1110	884	2070	4660	5670	5830	5480
20	1750	1290	1010	1230	765	1110	899	2240	4760	5480	6990	5230
21	1730	1310	981	1200	760	1100	912	2390	4900	5310	7670	4930
22	1710	1300	939	1160	752	1080	936	2530	5110	5190	7730	4640
23	1680	1260	902	1140	744	1070	941	2660	5380	5130	7570	4340
24	1650	1240	868	1100	737	1060	954	2770	5660	5130	7340	4060
25	1610	1230	850	1090	732	1030	956	2830	6020	5210	7160	3860
26	1590	1200	840	1060	709	1030	973	2860	6470	5290	6950	3730
27	1540	1180	820	1040	699	1030	987	2880	6840	5300	6660	3610
28	1540	1200	800	1050	688	1020	995	2850	7050	5270	6230	3510
29	1510	1230	780	1070	686	1010	1010	2860	7170	5220	5710	3700
30	1480	1330	760	1040	---	985	1030	2880	7150	5110	5190	4880
31	1440	---	740	1020	---	992	---	2880	---	5030	4800	---
TOTAL	55150	40380	35360	29606	24228	28386	27842	60800	140870	191800	184650	120240
MEAN	1779	1346	1141	955	835	916	928	1961	4696	6187	5956	4008
MAX	2120	1480	1530	1240	995	1110	1030	2880	7170	7540	7730	5640
MIN	1440	1180	740	660	686	651	863	1080	2890	5030	4800	2980
CFSM	2.81	2.12	1.80	1.51	1.32	1.45	1.46	3.09	7.41	9.76	9.39	6.32
IN.	3.24	2.37	2.07	1.74	1.42	1.67	1.63	3.57	8.27	11.25	10.83	7.06
AC-FT	109400	80090	70140	58720	48060	56300	55220	120600	279400	380400	366300	23850

CAL YR 1983 TOTAL 935726 MEAN 2564 MAX 8010 MIN 492 CFSM 4.04 IN 54.90 AC-FT 1856000
WTR YR 1984 TOTAL 939312 MEAN 2566 MAX 7730 MIN 651 CFSM 4.05 IN 55.11 AC-FT 1863000

ADJUSTED TO EXCLUDE DIVERSION FROM COOPER LAKE

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	1772	1297	1098	827	698	800	758	1853	4636	6164	5927	3946
CFSM	2.79	2.05	1.73	1.30	1.10	1.26	1.20	2.92	7.31	9.72	9.35	6.22
IN	3.22	2.28	2.00	1.50	1.19	1.45	1.33	3.37	8.16	11.21	10.78	6.94
AC-FT	108900	77200	67540	50830	40160	49160	45090	113900	275900	379000	364500	234800

CAL YR 1983 MEAN 2517 CFSM 3.97 IN 54.02 AC-FT 1826900
WTR YR 1984 MEAN 2489 CFSM 3.92 IN 53.44 AC-FT 1806900

15266300 KENAI RIVER AT SOLDOTNA

LOCATION.--Lat 60°28'39", long 151°04'46", Kenai Peninsula Borough, Hydrologic Unit 19050002, near center of span on downstream side of bridge on Sterling Highway, 1.0 mi southwest of Soldotna.

DRAINAGE AREA.--2,010 mi².

PERIOD OF RECORD.--May 1965 to current year.

GAGE.--Nonrecording gage. Datum of gage is 35.34 ft National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for Dec. 27 to Mar. 14, which are fair.

AVERAGE DISCHARGE.--19 years, 5,861 ft³/s, 39.60 in/yr, 4,246,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 33,700 ft³/s Sept. 9, 1977, gage height, 13.45 ft, from graph based on gage readings; maximum gage height, 22.62 ft Jan. 18, 1969, backwater from ice; minimum daily discharge, 770 ft³/s Apr. 1-4, 1966.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 17,800 ft³/s Aug. 26, gage height, 10.59 ft; minimum daily discharge, about 1,400 ft³/s Jan. 5-8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4350	2620	3480	1500	2100	1600	2010	1910	4550	11900	11500	12700
2	4300	2580	3080	1500	2100	1600	2040	2060	4550	12000	11300	11700
3	4250	2580	2840	1500	2100	1600	2060	2150	4630	12000	11300	10900
4	4180	2540	2620	1500	2100	1600	2060	2150	4800	12000	11300	10100
5	4080	2480	2620	1400	2100	1600	2030	2210	4980	12000	11500	9590
6	3980	2360	2620	1400	2100	1600	2010	2280	5180	12300	11700	8870
7	3880	2340	2480	1400	2000	1600	1970	2310	5410	12700	11900	8330
8	3700	2580	2360	1400	2000	1600	1970	2310	5710	13100	11900	8020
9	3700	2540	2350	1500	2000	1600	1920	2310	6070	13300	12100	7720
10	3900	2580	2330	1500	2000	1600	1860	2330	6220	13700	12400	7510
11	4590	2620	2270	1500	1900	1700	1850	2370	6370	13700	12500	7330
12	4400	2580	2230	1600	1900	1700	1800	2390	6520	13600	12500	7090
13	4200	2500	2200	1600	1900	1800	1790	2400	6790	13500	12400	6850
14	4100	2360	2100	1800	1900	1800	1850	2460	7030	13500	12100	6730
15	3950	2340	2100	2000	1900	1900	1880	2520	7120	13300	12000	7210
16	3850	2340	2000	2200	1800	1900	1880	2660	7450	13100	11900	7630
17	3750	2280	2000	2400	1800	2000	1880	2700	7570	13100	11700	7810
18	3600	2230	2000	2500	1800	2000	1820	2780	7630	13100	11700	8110
19	3500	2160	1900	2500	1800	1980	1760	2940	7810	12700	12500	8380
20	3450	2150	1900	2400	1700	1970	1770	3100	7900	12500	14900	8540
21	3400	2540	1900	2400	1700	1910	1800	3300	7900	12300	15400	8540
22	3200	2280	1800	2400	1700	1890	1790	3500	8110	12100	15500	8350
23	3100	2310	1800	2300	1700	1890	1770	3680	8320	12100	16500	8170
24	2900	2270	1800	2300	1700	1880	1760	3800	9050	12100	16500	8020
25	2790	2220	1700	2300	1700	1860	1760	3980	9850	12000	17000	7630
26	2820	2160	1700	2300	1600	1880	1820	4180	10500	12000	17800	7420
27	2820	2150	1700	2300	1600	1890	1820	4230	10600	12000	17200	7210
28	2820	2190	1700	2200	1600	1860	1890	4280	10700	11900	16300	7060
29	2780	2580	1600	2200	1600	1910	1940	4280	11100	11700	15400	7060
30	2780	3470	1600	2200	---	1940	1910	4330	11500	11500	14500	7510
31	2700	---	1600	2200	---	1970	---	4550	---	11500	13600	---
TOTAL	111820	72930	66380	60200	53900	55630	56470	92450	221920	388300	416800	248090
MEAN	3607	2431	2141	1942	1859	1795	1882	2982	7397	12530	13450	8270
MAX	4590	3470	3480	2500	2100	2000	2060	4550	11500	13700	17800	12700
MIN	2700	2150	1600	1400	1600	1600	1760	1910	4550	11500	11300	6730
CFSM	1.80	1.21	1.07	.97	.93	.89	.94	1.48	3.68	6.23	6.69	4.11
IN.	2.07	1.35	1.23	1.11	1.00	1.03	1.05	1.71	4.11	7.19	7.71	4.59
AC-FT	221800	144700	131700	119400	106900	110300	112000	183400	440200	770200	826700	492100

CAL YR 1983 TOTAL 1720160 MEAN 4713 MAX 14100 MIN 1000 CFSM 2.35 IN 31.84 AC-FT 3412000
WTR YR 1984 TOTAL 1844890 MEAN 5041 MAX 17800 MIN 1400 CFSM 2.51 IN 34.14 AC-FT 3659000

NOTE.--No gage-height record Jan. 1 to Mar. 13.

15267900 RESURRECTION CREEK NEAR HOPE

LOCATION.--Lat 60°53'40", long 149°38'13", in SW¼SE¼ sec.4, T.9 N., R.3 W., Kenai Peninsula Borough, Hydrologic Unit 19050002, Chugach National Forest, on right bank 2.1 mi upstream from mouth on south shore of Turnagain Arm and 1.8 mi south of Hope.

DRAINAGE AREA.--149 mi^2.

PERIOD OF RECORD.--October 1967 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 180 ft, from topographic map. Prior to Apr. 3, 1981 at site 300 ft upstream at different datum.

REMARKS.--Records good except those for Nov. 14 to Mar. 14, which are poor. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--17 years, 277 ft^3/s, 25.25 in/yr, 200,700 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,380 ft^3/s July 12, 1980, gage height, 8.71 ft, site and datum then in use, from rating curve extended above 2,100 ft^3/s; maximum gage height, 8.96 ft June 18, 1977, site and datum then in use; minimum daily discharge, 46 ft^3/s Mar. 26 to Apr. 13, 1975.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 686 ft^3/s June 23, gage height, 4.81 ft, no peak above base of 800 ft^3/s; minimum daily, about 60 ft^3/s Feb. 8-14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	226	160	152	90	80	70	82	158	370	519	275	247
2	230	181	131	90	80	70	82	161	388	489	270	239
3	214	171	120	90	80	75	80	155	433	467	265	234
4	203	164	120	80	70	80	78	155	481	460	261	226
5	203	161	110	80	70	80	78	149	504	489	261	222
6	206	140	110	80	70	90	76	149	534	496	261	218
7	188	168	100	80	70	100	78	152	534	496	252	214
8	181	164	100	80	60	110	76	164	534	526	243	206
9	178	164	90	80	60	120	78	184	542	526	243	203
10	308	217	90	90	60	130	76	214	542	504	239	199
11	357	184	90	90	60	120	76	234	534	475	252	192
12	325	168	90	90	60	110	78	234	542	454	230	190
13	299	140	90	90	60	110	84	247	565	440	222	184
14	280	130	90	100	60	110	86	261	574	427	210	298
15	275	120	90	100	70	104	84	275	582	407	206	320
16	261	120	90	100	70	92	84	289	574	407	206	271
17	261	110	90	100	70	88	82	331	565	394	206	247
18	252	110	100	110	70	86	82	376	557	376	218	239
19	239	110	100	110	70	82	80	394	582	364	279	247
20	230	110	110	100	70	88	86	407	607	358	304	243
21	226	120	110	90	70	84	97	414	607	347	261	230
22	226	120	100	80	70	84	99	414	632	347	261	214
23	210	120	90	70	70	84	90	407	659	347	261	206
24	199	110	90	70	70	86	90	414	659	336	270	203
25	174	110	90	70	70	84	92	407	650	325	400	203
26	170	110	90	70	70	82	94	376	607	325	370	195
27	170	110	80	80	70	82	101	358	565	315	321	188
28	170	130	80	80	70	80	116	353	534	304	299	188
29	170	155	80	90	70	82	129	370	557	294	284	319
30	160	161	80	90	---	80	140	376	549	284	270	453
31	160	---	80	90	---	80	---	376	---	280	256	---
TOTAL	6951	4238	3033	2710	1990	2823	2654	8954	16563	12578	8156	7038
MEAN	224	141	97.8	87.4	68.6	91.1	88.5	289	552	406	263	235
MAX	357	217	152	110	80	130	140	414	659	526	400	453
MIN	160	110	80	70	60	70	76	149	370	280	206	184
CFSM	1.50	.95	.66	.59	.46	.61	.59	1.94	3.71	2.73	1.77	1.58
IN.	1.74	1.06	.76	.68	.50	.70	.66	2.24	4.14	3.14	2.04	1.76
AC-FT	13790	8410	6020	5380	3950	5600	5260	17760	32850	24950	16180	13960

CAL YR 1983 TOTAL 89161 MEAN 244 MAX 1070 MIN 60 CFSM 1.64 IN 22.26 AC-FT 176900
WTR YR 1984 TOTAL 77688 MEAN 212 MAX 659 MIN 60 CFSM 1.42 IN 19.40 AC-FT 154100

15271000 SIXMILE CREEK NEAR HOPE

LOCATION.--Lat 60°49'15", long 149°25'31", in SW¼SE¼ sec.34, T.8 N., R.1 W., Kenai Peninsula Borough, Hydrologic Unit 19050002, Chugach National Forest, on left bank 6.0 mi upstream from mouth at Turnagain Arm and 10.6 mi southeast of Hope.

DRAINAGE AREA.--234 mi^2.

PERIOD OF RECORD.--June 1979 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 250 ft, from topographic map. Prior to Nov. 26, 1979, recording gage at site 0.8 mi downstream at different datum.

REMARKS.--Records good except those for Oct. 26 to Mar. 19, which are poor. Satellite telemeter at station. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--5 years, 992 ft^3/s, 57.54 in/yr, 718,700 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum recorded discharge, 8,070 ft^3/s July 12, 1980, gage height, 13.22 ft; but was probably more sometime during period Nov. 26 to Jan. 9, 1980 on release of storage behind snow-avalanche dam upstream from former gage site. This flood destroyed the gage and reached a stage of about 29.0 ft, site and datum then in use. Minimum discharge, 123 ft^3/s Apr. 13, 1982, gage height, 7.73 ft.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of October 1969 reached a stage of 20.8 ft, former site and datum, from floodmarks, discharge, 7,300 ft^3/s from rating curve extended above 2,500 ft^3/s on basis of slope-area measurement at gage height of 17.62 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 4,050 ft^3/s Sept. 29, gage height, 11.85 ft, no peak above base of 4,500 ft^3/s, minimum daily, about 130 ft^3/s Jan. 24-26 and Feb. 9-10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	640	390	612	170	170	160	238	627	1230	2080	975	544
2	623	457	550	180	170	160	238	618	1450	1890	983	519
3	580	453	441	180	170	160	229	545	1690	1780	1090	509
4	534	423	406	180	160	170	227	514	1870	1860	1190	495
5	524	406	370	170	160	180	229	509	1960	2270	1280	490
6	504	359	340	160	160	200	227	589	2120	2390	1180	476
7	458	374	320	160	150	210	224	575	2070	2370	1140	476
8	431	439	300	160	140	230	221	585	2030	2330	1110	485
9	458	427	280	160	130	260	221	657	2070	2070	1100	495
10	558	646	260	170	130	300	218	777	2020	1860	1050	485
11	848	597	250	180	140	290	216	857	1910	2000	1040	471
12	746	515	250	200	150	280	218	865	2040	1750	946	452
13	647	445	240	230	160	280	232	858	2080	1570	894	467
14	586	400	240	210	160	280	249	900	2150	1520	845	1940
15	564	380	230	190	160	280	252	951	2020	1430	837	2170
16	539	360	220	170	170	280	249	983	1910	1440	872	1440
17	575	340	230	160	170	270	243	1150	1890	1380	879	1080
18	623	310	240	160	170	270	240	1360	1990	1290	929	953
19	550	290	240	150	170	270	235	1530	2130	1190	1530	930
20	524	280	250	140	170	266	243	1530	2420	1180	1440	930
21	559	300	250	140	170	261	295	1570	2640	1220	1090	805
22	675	310	240	140	160	252	316	1550	2760	1310	1040	746
23	591	310	230	130	160	246	287	1450	2850	1320	992	689
24	544	310	220	130	160	243	284	1440	2820	1300	1040	658
25	472	312	210	130	160	240	278	1420	3020	1270	1380	652
26	460	312	200	130	160	238	278	1300	2800	1190	1170	623
27	450	306	190	140	160	232	278	1200	2390	1120	933	607
28	440	343	180	150	160	232	290	1160	2120	1080	792	618
29	430	557	170	160	150	235	350	1220	2370	1040	701	1670
30	410	628	170	170	---	232	461	1190	2310	1010	630	2820
31	400	---	170	170	---	229	---	1140	---	1010	585	---
TOTAL	16943	11979	8499	5070	4610	7436	7766	31620	65130	48520	31663	25695
MEAN	547	399	274	164	159	240	259	1020	2171	1565	1021	857
MAX	848	646	612	230	170	300	461	1570	3020	2390	1530	2820
MIN	400	280	170	130	130	160	216	509	1230	1010	585	452
CFSM	2.34	1.71	1.17	.70	.68	1.03	1.11	4.36	9.28	6.69	4.36	3.66
IN.	2.69	1.90	1.35	.81	.73	1.18	1.23	5.03	10.35	7.71	5.03	4.08
AC-FT	33610	23760	16860	10060	9140	14750	15400	62720	129200	96240	62800	50970

CAL YR 1983 TOTAL 297520 MEAN 815 MAX 4440 MIN 130 CFSM 3.48 IN 47.30 AC-FT 590100
WTR YR 1984 TOTAL 264931 MEAN 724 MAX 3020 MIN 130 CFSM 3.09 IN 42.12 AC-FT 525500

NOTE.--No gage-height record Dec. 23 to Feb. 14 and Feb. 18 to Mar. 19.

SOUTH-CENTRAL ALASKA

15273050 RABBIT CREEK AT ANCHORAGE

LOCATION.--Lat 61°04'54", long 149°49'30", in SW¼SW¼ sec.33, T.12 N., R.3 W., Municipality of Anchorage, Hydrologic Unit 19050002, on right bank 0.2 mi downstream from Old Seward Highway, 0.5 mi upstream from Little Rabbit Creek, and 9.5 mi south of Anchorage.

DRAINAGE AREA.--15 mi², approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1979 to September 1980, October 1983 to September 1984.

GAGE.--Water-stage and rain gage recorder. Altitude of gage is 42 ft, from topographic map. May 1979 to September 1980, at present site at different datum.

REMARKS.--Water-discharge records poor. Recording rain gage at station, daily values of precipitation available from WATSTORE.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge recorded, 234 ft³/s Aug. 25, 1984, gage height, 18.29 ft, from rating curve extended above 60 ft³/s, but may have been higher during periods of no gage-height record, Oct. 10, 1983 and Sept. 19, 1984; minimum, 5.4 ft³/s Mar. 28, 1980.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 23, 1977 had an estimated peak discharge of 500 ft³/s at the Old Seward Highway.

EXTREMES FOR CURRENT YEAR.--Maximum discharge recorded, 234 ft³/s Aug. 25, gage height, 18.29 ft, from rating curve extended above 60 ft³/s, but may have been higher during periods of no gage-height record, Oct. 10 and Sept. 19; minimum daily, about 6.0 ft³/s Feb. 24 to Mar. 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	20	14	9.5	8.5	6.0	8.0	19	38	26	14	21
2	19	20	13	9.5	8.5	6.0	8.0	19	36	26	13	20
3	17	19	13	9.5	8.5	6.0	8.0	19	35	26	13	20
4	15	19	13	9.5	8.5	6.5	8.0	18	35	26	13	19
5	16	19	12	9.5	8.5	6.5	8.0	18	36	25	13	19
6	17	19	12	9.5	8.5	6.5	8.0	18	35	25	14	18
7	15	18	12	9.5	8.0	6.5	8.0	18	36	25	14	18
8	13	18	12	9.0	8.0	7.0	8.0	25	35	30	13	18
9	15	18	11	9.0	8.0	7.0	8.0	20	36	33	12	17
10	85	18	11	9.0	8.0	9.0	8.0	20	33	30	11	17
11	70	18	11	9.0	7.5	10	8.0	22	30	29	12	16
12	50	17	10	9.0	7.0	8.0	8.5	21	34	27	13	16
13	40	17	10	9.0	7.0	7.0	8.5	18	36	26	11	15
14	35	17	10	9.0	7.0	7.0	8.5	19	38	25	10	16
15	32	17	10	9.0	7.0	7.0	8.5	20	40	26	12	18
16	30	17	10	9.0	7.0	7.0	8.5	20	40	24	13	16
17	29	16	10	9.0	7.0	7.0	8.5	19	38	22	14	15
18	28	16	10	9.0	7.0	7.0	8.5	21	36	21	15	25
19	27	16	10	9.0	7.0	7.0	8.5	24	34	21	18	50
20	26	16	10	9.0	7.0	7.0	8.5	22	33	19	20	40
21	26	16	10	9.0	6.5	7.0	8.5	20	32	19	13	35
22	25	15	10	9.0	6.5	7.5	8.5	24	31	18	16	30
23	24	15	10	9.0	6.5	7.5	9.0	23	30	17	16	25
24	24	15	9.5	9.0	6.0	7.5	9.5	22	29	17	18	25
25	23	15	9.5	9.0	6.0	7.5	9.5	24	29	17	55	25
26	23	15	9.5	9.0	6.0	7.5	10	26	28	17	54	25
27	22	15	9.5	9.0	6.0	7.5	12	26	28	16	44	23
28	22	14	9.5	9.0	6.0	7.5	16	22	27	15	24	22
29	22	14	9.5	9.0	6.0	7.5	18	23	27	15	23	50
30	21	14	9.5	8.5	---	8.0	18	32	26	14	22	45
31	21	---	9.5	8.5	---	8.0	---	40	---	14	21	---
TOTAL	852	503	330.0	281.5	209.0	224.0	283.5	682	1001	691	574	719
MEAN	27.5	16.8	10.6	9.08	7.21	7.23	9.45	22.0	33.4	22.3	18.5	24.0
MAX	85	20	14	9.5	8.5	10	18	40	40	33	55	50
MIN	13	14	9.5	8.5	6.0	6.0	8.0	18	26	14	10	15
CFSM	1.83	1.12	.71	.61	.48	.48	.63	1.47	2.23	1.49	1.23	1.60
IN.	2.11	1.25	.82	.70	.52	.56	.70	1.69	2.48	1.71	1.42	1.78
AC-FT	1690	998	655	558	415	444	562	1350	1990	1370	1140	1430

WTR YR 1984 TOTAL 6350.0 MEAN 17.3 MAX 85 MIN 6.0 CFSM 1.15 IN 15.75 AC-FT 12600

Note.--No gage-height record prior to Feb. 10 and after Aug. 28.

15273050. RABBIT CREEK AT ANCHORAGE--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water year 1979, 1980 and September 1983 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: January to September 1984.
WATER TEMPERATURE: January to September 1984.

INSTRUMENTATION.--Water-quality monitor and recorder since Jan. 1984.

REMARKS.--Period of no record due to equipment malfunction. No cross-sections were obtained during the water year. Recorded temperatures are with 0.5° of probe temperatures. Specific conductance values Jan. 16 to Mar. 27 are poor and values from Mar. 27 to Sept. 30 are good.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum recorded, 142 micromhos/cm at 25°C APR. 5, 6; minimum recorded, 39 micromhos/cm at 25°C Aug.26.
WATER TEMPERATURE: Maximum recorded, 12.5°C Aug. 4; minimum, 0.0°C on many days during winter period.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS) (00061)	SPECIFIC CONDUCTANCE (UMHOS) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE (DEG C) (00010)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
NOV								
28...	1035	--	86	7.2	.0	--	14.0	--
JAN								
04...	1625	9.3	87	7.6	.0	766	14.8	101
31...	1430	8.7	97	8.2	.0	--	--	--
FEB								
28...	1315	6.1	86	7.7	.5	747	13.6	96
MAR								
27...	0945	7.5	110	--	1.5	755	13.6	98
APR								
26...	1600	10	127	8.1	2.5	770	13.2	96
MAY								
30...	1530	32	95	8.2	7.0	758	11.4	94
JUN								
29...	1350	27	64	7.8	8.5	753	11.2	97
JUL								
31...	1400	14	70	7.9	10.5	761	10.7	96
AUG								
28...	1135	24	41	7.8	5.0	760	12.8	100

DATE	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	HARDNESS (MG/L AS CACO3) (00900)	HARDNESS, NONCARBONATE (MG/L CACO3) (00902)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	ALKALINITY FIELD (MG/L AS CACO3) (00410)	ALKALINITY, CARBONATE IT-FLD (MG/L - CACO3) (99430)
NOV									
28...	K4	35	4	11	1.9	1.6	.40	--	--
JAN									
04...	K2	41	9	13	2.1	1.7	.30	--	--
31...	K1	42	14	13	2.3	1.8	.30	28	--
FEB									
28...	K7	42	5	13	2.3	1.8	.40	--	--
MAR									
27...	--	46	11	14	2.7	2.6	.50	35	35
APR									
26...	--	59	17	18	3.5	3.3	.50	45	43
MAY									
30...	--	45	8	14	2.5	2.8	.70	--	38
JUN									
29...	--	29	8	9.1	1.5	1.3	.30	20	20
JUL									
31...	--	--	--	--	--	--	--	--	--
AUG									
28...	--	--	--	--	--	--	--	--	--

K NON-IDEAL COLONY COUNT

SOUTH-CENTRAL ALASKA

15273050 RABBIT CREEK AT ANCHORAGE--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	BICAR-BONATE IT-FLD (MG/L AS HCO3) (99440)	CAR-BONATE IT-FLD (MG/L AS CO3) (99445)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)
NOV 28...	--	--	8.8	1.1	<.10	8.0	53	51
JAN 04...	--	--	9.2	1.3	<.10	8.3	59	55
31...	--	--	9.4	1.0	<.10	8.5	54	53
FEB 28...	--	--	9.5	1.1	<.10	8.7	64	59
MAR 27...	43	.000	10	3.0	<.10	8.6	70	63
APR 26...	52	.000	12	5.4	<.10	9.1	95	78
MAY 30...	46	--	8.5	3.0	<.10	8.5	49	63
JUN 29...	25	.000	6.2	.60	<.10	6.4	35	38
JUL 31...	--	--	--	--	--	--	--	--
AUG 28...	--	--	--	--	--	--	--	--

DATE	TIME	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)
NOV 28...	1035	.40	.42	.020	.030	.78	.37	.80
JAN 04...	1625	.40	.42	.010	<.010	.19	--	.20
31...	1430	.40	.43	<.010	.030	--	--	<.20
FEB 28...	1315	.40	.44	.020	.020	--	--	<.20
MAR 27...	0945	.70	.66	.020	.030	.18	--	.20
APR 26...	1600	.90	.91	.030	.020	.77	.28	.80
MAY 30...	1530	1.0	.98	.010	.020	.49	.28	.50
JUN 29...	1350	.20	.19	<.010	<.010	--	--	.30

DATE	NITRO-GEN,NH4 + ORG. SUSP. TOTAL (MG/L AS N) (00624)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P) (00666)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
NOV 28...	.40	.40	1.2	.82	<.010	<.010	--
JAN 04...	.00	.20	.60	.62	.010	.010	--
31...	--	<.20	--	--	.010	<.010	.80
FEB 28...	--	<.20	--	--	<.010	<.010	.70
MAR 27...	--	<.20	.90	--	<.010	<.010	1.0
APR 26...	.50	.30	1.7	1.2	.040	.010	--
MAY 30...	--	.30	1.5	--	.090	.010	--
JUN 29...	--	<.20	.50	--	<.010	<.010	--

15273050 RABBIT CREEK AT ANCHORAGE--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL) (01105)	ALUMINUM, SUSPENDED RECOV. (UG/L AS AL) (01107)	ALUMINUM, DISSOLVED (UG/L AS AL) (01106)	ARSENIC DISSOLVED (UG/L AS AS) (01000)	BORON, DISSOLVED (UG/L AS B) (01020)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	CADMIUM DISSOLVED (UG/L AS CD) (01025)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	CHROMIUM, DISSOLVED (UG/L AS CR) (01030)	COBALT, TOTAL RECOVERABLE (UG/L AS CO) (01037)
NOV 28...	1035	1900	--	<10	--	--	<1	<1	51	<10	--
JAN 04...	1625	90	--	<10	--	--	<1	<1	<1	<10	--
31...	1430	80	70	10	--	--	<1	<1	1	<10	--
FEB 28...	1315	10	0	20	--	--	<1	<1	5	<10	--
MAR 27...	0945	260	230	30	--	--	<1	<1	3	<10	--
APR 26...	1600	360	330	30	<1	30	<1	<1	10	<10	10
MAY 30...	1530	2700	--	30	--	--	1	<1	6	<10	--
JUN 29...	1350	170	--	20	--	--	1	<1	1	<10	--

DATE	COPPER, TOTAL RECOVERABLE (UG/L AS CU) (01042)	COPPER, SUSPENDED RECOVERABLE (UG/L AS CU) (01041)	COPPER, DISSOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)	IRON, SUSPENDED RECOVERABLE (UG/L AS FE) (01044)	IRON, DISSOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	LEAD, SUSPENDED RECOVERABLE (UG/L AS PB) (01050)	LEAD, DISSOLVED (UG/L AS PB) (01049)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MANGANESE, SUSPENDED RECOV. (UG/L AS MN) (01054)
NOV 28...	9	6	3	2600	2600	6	1	0	2	90	90
JAN 04...	7	6	1	110	90	17	3	--	<1	10	6
31...	5	--	<1	70	60	6	<1	--	<1	10	8
FEB 28...	5	--	<1	80	80	3	<1	--	2	30	30
MAR 27...	5	3	2	380	360	20	<1	--	3	<10	--
APR 26...	4	3	1	550	520	29	<1	--	<1	40	20
MAY 30...	6	--	2	3400	--	28	1	--	3	100	--
JUN 29...	6	--	2	200	--	6	<1	--	<1	20	--

DATE	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	MERCURY DISSOLVED (UG/L AS HG) (71890)	MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO) (01062)	MOLYBDENUM, DISSOLVED (UG/L AS MO) (01060)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI) (01067)	NICKEL, SUSPENDED RECOVERABLE (UG/L AS NI) (01066)	NICKEL, DISSOLVED (UG/L AS NI) (01065)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	ZINC, SUSPENDED RECOVERABLE (UG/L AS ZN) (01091)	ZINC, DISSOLVED (UG/L AS ZN) (01090)
NOV 28...	2	--	--	--	23	--	<1	30	10	19
JAN 04...	4	--	--	--	9	0	10	30	0	26
31...	2	--	--	--	10	6	4	110	110	5
FEB 28...	2	--	--	--	6	5	1	<10	--	8
MAR 27...	5	--	--	--	4	2	2	10	0	13
APR 26...	17	<.1	<1	<1	8	4	4	10	0	9
MAY 30...	9	--	--	--	19	--	<1	80	--	10
JUN 29...	3	--	--	--	11	--	2	20	--	<3

WATER-QUALITY RECORDS

15273050 RABBIT CREEK AT ANCHORAGE--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
NOV				
28...	1035	--	96	--
JAN				
04...	1625	9.3	39	.98
31...	1430	8.7	4	.09
FEB				
28...	1315	6.1	2	.03
MAR				
27...	0945	7.5	8	.16
APR				
26...	1600	10	12	.32
MAY				
30...	1530	32	97	8.4
JUN				
29...	1350	27	6	.44
JUL				
09...	1130	33	20	1.8
31...	1400	14	4	.15
AUG				
25...	1433	66	*1250	223
25...	1930	59	*277	44
28...	1135	24	8	.52

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), JANUARY TO SEPTEMBER 1984

DAY	MAX	MIN JANUARY	MEAN	DAY	MAX	MIN JANUARY	MEAN
16	---	112	---	21	116	113	114
17	112	111	111	22	114	112	113
18	111	111	111	23	115	114	115
19	111	111	111	24	114	113	113
20	114	111	112	25	113	112	113
				26	112	---	---

DAY	MAX	MIN FEBRUARY	MEAN	MAX	MIN MARCH	MEAN	MAX	MIN APRIL	MEAN	MAX	MIN MAY	MEAN
1	---	---	---	110	109	109	128	121	125	---	---	---
2	---	---	---	109	108	108	135	119	128	---	---	---
3	---	---	---	108	107	107	139	134	137	---	---	---
4	---	---	---	107	105	106	141	138	139	---	---	---
5	---	---	---	113	105	109	142	141	141	---	---	---
6	---	---	---	114	110	112	142	138	141	---	---	---
7	---	---	---	115	113	114	141	121	130	---	---	---
8	---	---	---	114	112	113	120	113	115	105	102	104
9	---	---	---	113	111	112	113	110	111	111	101	106
10	---	---	---	114	112	113	111	108	109	116	107	110
11	---	---	---	118	114	116	109	105	106	114	106	110
12	---	---	---	120	118	118	107	105	106	118	109	114
13	---	---	---	119	117	118	107	106	107	118	112	115
14	---	---	---	116	115	116	108	106	107	118	106	115
15	---	---	---	116	113	114	111	108	109	111	103	107
16	---	---	---	113	111	112	112	108	110	108	101	105
17	114	113	114	113	110	111	112	110	111	107	99	101
18	115	114	115	114	111	112	117	111	112	111	96	101
19	116	115	115	117	106	112	121	109	115	115	105	112
20	116	115	116	120	109	115	113	110	111	117	112	114
21	117	116	116	117	106	111	113	110	112	118	112	115
22	117	115	116	116	101	110	114	107	111	112	108	109
23	117	116	117	119	99	110	122	111	115	111	108	110
24	116	115	116	114	101	107	116	110	114	108	100	103
25	116	114	115	108	106	107	117	111	115	103	99	101
26	115	114	114	109	106	107	116	112	113	99	91	95
27	113	112	112	110	106	108	115	112	114	103	91	98
28	112	111	111	110	107	108	114	104	110	100	89	95
29	111	110	111	114	110	112	112	106	110	103	98	100
30	---	---	---	119	114	116	---	---	---	101	99	100
31	---	---	---	129	119	125	---	---	---	---	---	---
MONTH	117	110	114	129	99	112	142	104	117	118	89	106

* COLLECTED AUTOMATICALLY WITH A SINGLE-STAGE SEDIMENT SAMPLER

15273050 RABBIT CREEK AT ANCHORAGE--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), JANUARY TO SEPTEMBER 1984

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	---	---	---	76	74	75	59	58	59
2	---	---	---	---	---	---	77	74	76	63	63	63
3	---	---	---	---	---	---	85	74	77	68	67	67
4	---	---	---	---	---	---	90	84	88	72	71	71
5	---	---	---	---	---	---	91	87	89	76	75	75
6	---	---	---	---	---	---	93	87	90	80	79	80
7	90	81	84	---	---	---	93	87	92	84	83	84
8	86	82	83	---	---	---	94	88	93	88	88	88
9	84	82	83	---	---	---	94	77	85	92	92	92
10	92	79	84	---	---	---	89	66	72	96	96	96
11	86	65	74	74	72	74	90	79	85	100	100	100
12	85	69	79	75	73	74	83	78	80	102	101	101
13	91	82	86	76	73	75	81	79	80	102	101	101
14	93	79	87	74	66	71	81	69	78	102	101	101
15	88	80	85	66	64	65	79	69	76	103	101	102
16	81	78	80	64	63	63	82	71	77	102	101	101
17	89	75	80	70	64	66	94	79	83	102	101	102
18	88	81	83	72	71	71	95	71	79	105	101	102
19	92	86	88	73	72	73	96	73	82	106	95	100
20	95	88	90	74	72	73	100	71	88	118	106	114
21	93	84	89	73	69	70	94	62	75	109	98	104
22	89	76	83	75	69	72	99	64	87	99	94	96
23	86	76	79	82	76	80	99	93	96	94	92	93
24	87	68	79	82	79	81	98	77	92	92	91	91
25	85	79	83	81	74	77	87	41	61	91	88	90
26	89	83	86	78	74	76	45	39	41	90	87	88
27	90	82	86	74	71	73	41	40	40	88	86	87
28	84	43	68	73	69	71	42	41	41	87	86	87
29	78	50	67	73	70	72	47	45	46	99	64	84
30	84	78	81	75	72	74	51	49	50	87	81	83
31	---	---	---	75	73	74	55	54	54	---	---	---
MONTH	95	43	82	82	63	73	100	39	75	118	58	90

TEMPERATURE, WATER (DEG. C), JANUARY TO SEPTEMBER 1984

DAY	MAX	MIN	MEAN	DAY	MAX	MIN	MEAN
		JANUARY				JANUARY	
17	1.0	.5	1.0	22	.5	.0	.0
18	1.0	1.0	1.0	23	.0	.0	.0
19	1.0	.5	1.0	24	.0	.0	.0
20	.5	.5	.5	25	.0	.0	.0
21	.5	.5	.5	26	.0	.0	.0

SOUTH-CENTRAL ALASKA

15273050 RABBIT CREEK AT ANCHORAGE--Continued

TEMPERATURE, WATER (DEG. C), JANUARY TO SEPTEMBER 1984

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	1.5	1.0	1.0	2.5	1.5	1.5	---	---	---
2	---	---	---	1.5	1.0	1.0	2.0	1.0	1.5	---	---	---
3	---	---	---	1.5	1.5	1.5	2.5	1.0	1.5	---	---	---
4	---	---	---	1.5	1.0	1.5	2.0	.5	1.0	---	---	---
5	---	---	---	1.5	1.0	1.5	1.5	.5	1.0	---	---	---
6	---	---	---	1.5	1.0	1.5	2.0	.5	1.0	---	---	---
7	---	---	---	1.5	1.5	1.5	2.5	1.0	1.5	---	---	---
8	---	---	---	1.5	1.5	1.5	2.0	.5	1.5	8.5	2.5	5.0
9	---	---	---	1.5	1.0	1.0	2.5	1.0	1.5	8.5	3.0	5.5
10	---	---	---	2.0	1.5	1.5	2.5	.5	1.5	9.0	3.0	5.5
11	---	---	---	2.0	1.5	2.0	2.0	.5	1.0	8.5	3.0	5.5
12	---	---	---	2.0	1.5	1.5	2.5	.0	1.0	8.5	2.0	5.0
13	---	---	---	2.0	1.0	1.5	2.5	1.0	1.5	9.5	3.0	6.0
14	---	---	---	2.0	1.5	1.5	3.5	.5	1.5	10.0	3.0	6.0
15	---	---	---	2.0	1.0	1.5	2.5	.5	1.5	9.5	3.5	6.0
16	---	---	---	2.0	1.0	1.5	1.5	.0	.5	8.5	4.5	6.5
17	1.5	1.0	1.0	2.0	1.0	1.5	2.0	.5	1.0	9.5	4.5	7.0
18	1.5	1.0	1.0	1.5	.5	1.0	2.5	.0	1.0	9.5	5.0	7.0
19	1.5	1.0	1.0	1.5	.5	1.0	1.5	.0	.5	9.5	4.5	6.5
20	1.0	1.0	1.0	1.5	.5	1.0	2.5	.5	1.5	10.0	4.5	6.5
21	1.0	1.0	1.0	1.0	.5	.5	3.5	.0	1.5	7.5	5.5	6.5
22	1.0	1.0	1.0	1.0	.5	.5	1.5	.0	.5	8.5	4.5	6.5
23	1.0	1.0	1.0	.5	.5	.5	1.0	.0	.5	11.0	4.5	7.0
24	1.0	1.0	1.0	.5	.5	.5	3.5	.0	1.5	9.5	4.5	7.0
25	1.5	1.0	1.0	1.5	.5	1.0	3.5	.0	1.5	7.5	5.0	6.5
26	1.5	1.0	1.5	2.0	1.5	1.5	2.5	1.0	1.5	7.5	5.0	6.5
27	1.5	1.5	1.5	2.0	1.5	1.5	2.5	1.0	2.0	9.5	4.0	6.5
28	1.5	1.0	1.0	2.0	.5	1.5	3.0	1.0	2.0	10.5	4.0	7.0
29	1.5	1.0	1.0	2.0	1.0	1.5	2.0	.5	1.5	9.0	4.0	6.5
30	---	---	---	2.0	1.0	1.5	---	---	---	---	5.5	---
31	---	---	---	2.5	1.0	1.5	---	---	---	---	---	---
MONTH				2.5	.5	1.5	3.5	.0	1.5	11.0	2.0	6.5

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	---	---	---	10.5	8.5	9.5	7.5	4.0	6.0
2	---	---	---	---	---	---	11.0	8.5	9.5	7.5	4.0	6.0
3	---	---	---	---	---	---	10.0	9.0	9.5	7.5	4.0	6.0
4	---	---	---	---	---	---	12.5	8.5	10.0	8.0	5.0	6.5
5	---	---	---	---	---	---	11.0	9.5	10.5	7.5	4.5	6.0
6	7.5	---	---	---	---	---	10.5	9.0	9.5	7.5	4.5	6.0
7	10.0	5.0	7.0	---	---	---	12.0	8.0	10.0	7.5	6.0	6.5
8	9.0	5.5	7.0	---	---	---	11.0	9.0	10.0	8.0	5.5	7.0
9	10.0	5.5	7.5	---	---	---	12.0	9.0	10.5	8.0	5.0	6.5
10	10.0	5.0	7.5	11.5	---	---	11.5	8.5	10.0	8.0	5.0	6.0
11	10.5	6.0	8.0	11.5	8.0	9.5	11.5	9.0	10.0	7.5	4.5	6.0
12	11.0	6.5	8.5	12.0	7.5	9.5	11.5	7.5	9.5	8.0	5.0	6.5
13	8.5	7.0	7.5	10.5	8.0	9.0	11.0	7.5	9.0	7.5	6.5	7.0
14	7.5	5.0	6.5	10.0	7.0	8.5	11.0	7.0	9.0	7.5	5.5	6.5
15	7.0	5.0	6.0	11.5	7.0	9.0	12.0	8.5	11.0	7.5	5.5	6.5
16	7.0	5.5	6.0	10.0	8.5	9.5	12.0	8.5	10.0	7.5	5.0	6.0
17	9.0	5.5	6.5	9.0	8.0	8.5	12.0	9.0	10.5	7.5	5.5	6.5
18	10.0	4.5	7.0	9.0	8.0	8.0	10.5	9.0	9.5	7.0	6.0	6.5
19	10.0	4.5	7.0	8.5	7.5	8.0	9.5	8.5	9.0	7.0	5.0	6.0
20	10.5	5.0	7.5	9.0	7.5	8.0	10.0	8.5	9.0	6.0	4.5	5.0
21	10.0	5.0	7.0	11.5	8.0	9.5	9.5	8.5	9.0	5.5	3.5	4.5
22	10.5	4.5	7.5	11.0	8.5	10.0	10.0	8.5	9.0	5.5	3.0	4.0
23	9.0	5.5	7.0	11.5	8.5	10.0	10.5	8.5	9.5	6.0	5.0	5.5
24	9.0	5.5	7.0	10.5	8.5	9.5	9.5	8.5	9.0	6.0	5.0	5.5
25	7.5	5.0	6.0	10.5	8.5	9.5	9.5	8.0	9.0	6.5	5.0	5.5
26	7.0	5.0	6.0	11.0	8.0	9.5	8.0	6.0	7.5	5.5	3.5	5.0
27	7.0	5.0	6.0	12.0	8.5	10.0	7.5	4.0	5.5	6.0	4.5	5.0
28	9.5	4.0	6.5	11.0	8.5	9.5	7.5	5.0	5.5	5.5	4.5	5.0
29	9.0	5.5	7.0	9.5	8.5	9.0	7.5	4.0	6.0	6.0	5.0	5.5
30	6.5	4.5	5.5	11.5	8.0	9.5	6.5	4.0	5.5	6.0	5.0	5.5
31	---	---	---	10.5	9.5	9.5	6.5	3.0	5.0	---	---	---
MONTH	11.0	4.0	7.0	12.0	7.0	9.0	12.5	3.0	9.0	8.0	3.0	6.0
YEAR	12.5	.0	5.0									

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15273095 LITTLE RABBIT CREEK ABOVE GOLDENVIEW DRIVE AT ANCHORAGE

LOCATION.--Lat 61°04'58", long 149°45'41", in SE¼SW¼ sec.35, T.12 N., R.3 W., Municipality of Anchorage, Hydrologic Unit 19050002, on right bank beneath driveway bridge, 0.4 mi above Goldenview Drive, and 10.5 mi south of Anchorage.

DRAINAGE AREA.--5.06 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1980 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 745 ft, from topographic map.

REMARKS.--Water-discharge records good except those for Oct. 16 to June 9, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 202 ft³/s Nov. 10, 1981, gage height, 2.09 ft, from rating curve extended above 27 ft³/s; minimum, about 1.0 ft³/s Feb. 11 to Apr. 8, 1982.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 78 ft³/s Oct. 10, gage height, 1.45 ft, from rating curve extended above 27 ft³/s; minimum daily, about 1.6 ft³/s Feb. 13 to Mar. 6, and Mar. 23-28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.3	6.5	5.0	2.3	2.0	1.6	1.7	7.5	13	6.6	4.2	5.4
2	5.9	6.4	5.0	2.2	2.0	1.6	1.7	8.0	13	6.8	4.1	5.0
3	5.0	6.4	5.0	2.2	1.9	1.6	1.8	8.0	14	6.3	4.0	4.8
4	4.5	6.3	5.0	2.1	1.9	1.6	1.8	7.5	13	5.9	3.9	4.5
5	4.7	6.2	4.8	2.1	1.9	1.6	1.8	8.0	12	5.7	3.6	4.2
6	4.6	6.2	4.6	2.1	1.9	1.6	1.8	8.5	13	5.4	3.9	4.0
7	4.5	6.2	4.4	2.1	1.9	1.7	1.8	8.0	13	5.1	3.8	3.9
8	4.4	6.1	4.3	2.1	1.9	1.8	1.9	10	14	8.4	3.6	3.7
9	5.1	6.0	4.2	2.1	1.8	1.8	1.9	8.0	14	11	3.7	3.6
10	33	6.0	4.1	2.1	1.8	2.4	1.9	8.0	13	8.4	3.3	3.5
11	26	5.9	4.0	2.1	1.7	2.5	1.9	8.5	12	7.1	4.2	3.5
12	19	5.8	4.0	2.1	1.7	2.4	2.0	8.0	11	6.2	3.5	3.3
13	15	5.8	3.9	2.1	1.6	1.9	2.0	7.5	11	6.4	3.2	3.1
14	13	5.8	3.8	2.1	1.6	1.8	2.0	8.0	11	6.1	3.0	3.6
15	12	5.7	3.8	2.1	1.6	1.8	2.0	8.5	14	5.6	2.8	3.7
16	11	5.6	3.7	2.1	1.6	1.8	2.0	8.5	15	5.4	2.7	3.3
17	10	5.6	3.6	2.1	1.6	1.8	2.1	8.0	14	5.5	2.6	3.3
18	9.6	5.6	3.5	2.1	1.6	1.7	2.2	9.0	13	5.5	3.6	11
19	9.2	5.5	3.4	2.1	1.6	1.7	2.1	10	12	5.5	4.2	21
20	9.0	5.4	3.3	2.0	1.6	1.7	2.2	9.5	9.7	5.5	5.0	20
21	8.6	5.4	3.2	2.0	1.6	1.7	2.2	8.5	9.0	5.2	3.9	11
22	8.4	5.2	3.1	2.0	1.6	1.7	2.2	9.5	8.9	4.7	4.5	8.7
23	8.0	5.1	3.0	2.0	1.6	1.6	2.5	9.0	8.8	4.6	4.1	7.8
24	7.8	5.0	2.9	2.0	1.6	1.6	2.7	9.0	8.7	4.5	5.0	7.4
25	7.6	5.0	2.8	2.0	1.6	1.6	2.9	10	8.3	4.4	18	8.2
26	7.4	5.0	2.7	2.0	1.6	1.6	3.1	11	7.9	4.8	14	7.6
27	7.4	5.0	2.6	2.0	1.6	1.6	4.0	11	7.8	4.5	9.3	7.0
28	7.4	5.0	2.6	2.0	1.6	1.6	5.5	9.0	7.3	4.2	7.9	6.7
29	7.2	5.0	2.5	2.0	1.6	1.7	6.0	9.5	7.1	4.2	7.3	17
30	7.0	5.0	2.4	2.0	---	1.7	7.5	11	6.5	4.0	6.4	14
31	6.8	---	2.4	2.0	---	1.7	---	14	---	3.8	5.7	---
TOTAL	295.4	169.7	113.6	64.3	49.6	54.5	77.2	278.5	335.0	177.3	159.0	213.8
MEAN	9.53	5.66	3.66	2.07	1.71	1.76	2.57	8.98	11.2	5.72	5.13	7.13
MAX	33	6.5	5.0	2.3	2.0	2.5	7.5	14	15	11	18	21
MIN	4.4	5.0	2.4	2.0	1.6	1.6	1.7	7.5	6.5	3.8	2.6	3.1
CFSM	1.88	1.12	.72	.41	.34	.35	.51	1.78	2.21	1.13	1.01	1.41
IN.	2.17	1.25	.83	.47	.36	.40	.57	2.05	2.46	1.30	1.17	1.57
AC-FT	586	337	225	128	98	108	153	552	664	352	315	424

CAL YR 1983 TOTAL 1770.9 MEAN 4.85 MAX 33 MIN 1.2 CFSM .96 IN 13.02 AC-FT 3510
WTR YR 1984 TOTAL 1987.9 MEAN 5.43 MAX 33 MIN 1.6 CFSM 1.07 IN 14.61 AC-FT 3940

NOTE.--No gage height record Apr. 27 to June 9.

15273095 LITTLE RABBIT CREEK ABOVE GOLDENVIEW DRIVE AT ANCHORAGE--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 1983 to September 1984.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: November 1983 to September 1984.
WATER TEMPERATURE: November 1983 to September 1984.

INSTRUMENTATION.--USGS mini-monitor and multiparameter recorder since November 1983.

REMARKS.--Period of no record due to equipment malfunction. Recorded temperatures were found to be within 0.5°C of mean stream temperature, based on one cross-sectional measurement, with a maximum variation of 0.2°C observed within the cross section. Several other observations of water temperature were made during the year. Water temperature records are good. Specific conductance records are fair.

EXTREMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum recorded, 229 micromhos/cm at 25°C Apr. 25; minimum recorded, 88 micromhos/cm at 25°C June 10.
WATER TEMPERATURE: Maximum recorded, 10.5°C June 22, July 4-7; minimum recorded, 0.0°C on many days during winter period.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS) (00061)	SPECIFIC CONDUCTANCE (UMHOS) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE (DEG C) (00010)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
NOV								
28...	1400	--	135	7.4	.5	--	14.1	--
JAN								
04...	1250	2.1	155	8.0	.5	757	15.0	105
31...	1000	--	--	7.8	.5	—	--	--
FEB								
28...	0915	1.5	173	8.3	.5	728	12.8	93
MAR								
27...	0900	1.6	165	--	1.0	--	--	--
APR								
26...	1015	3.1	170	8.4	1.0	750	14.1	101
MAY								
30...	1115	14	87	8.3	4.0	739	11.3	89
JUN								
29...	0930	7.3	83	8.1	6.5	734	11.1	94
JUL								
31...	1300	3.9	114	8.1	8.5	743	10.8	95
AUG								
28...	1300	7.7	73	8.0	4.5	740	12.0	96

DATE	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	HARDNESS (MG/L AS CACO3) (00900)	HARDNESS, NONCARBONATE (MG/L CACO3) (00902)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	ALKALINITY FIELD (MG/L AS CACO3) (00410)	ALKALINITY, CARBONATE IT-FLD (MG/L - CACO3) (99430)
NOV									
28...	K17	58	11	18	3.1	2.3	.30	--	--
JAN									
04...	K4	67	12	21	3.6	2.4	.40	--	--
31...	K1	71	14	22	3.9	2.5	.70	--	--
FEB									
28...	<1	74	11	23	4.0	2.5	.30	--	--
MAR									
27...	--	74	22	23	4.1	2.8	.50	--	52
APR									
26...	--	78	16	24	4.3	3.1	.50	62	--
MAY									
30...	--	55	11	17	3.0	2.1	.40	45	44
JUN									
29...	<1	47	14	15	2.2	6.3	.40	--	33
JUL									
31...	--	--	--	--	--	--	--	--	--
AUG									
28...	--	--	--	--	--	--	--	--	--

K NON-IDEAL COLONY COUNT

15273095 LITTLE RABBIT CREEK ABOVE GOLDENVIEW DRIVE AT ANCHORAGE--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	BICAR- BONATE IT-FLD (MG/L AS HCO3) (99440)	CAR- BONATE IT-FLD (MG/L AS CO3) (99445)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)
NOV								
28...	--	--	14	1.7	<.10	8.8	80	76
JAN								
04...	--	--	13	1.5	<.10	9.6	105	85
31...	--	--	15	1.3	<.10	9.9	88	90
FEB								
28...	--	--	16	1.5	<.10	10	92	95
MAR								
27...	64	.000	15	3.4	<.10	9.7	98	90
APR								
26...	--	--	15	2.8	.10	9.6	110	97
MAY								
30...	54	.000	10	1.4	<.10	8.7	56	69
JUN								
29...	40	.000	9.9	.70	<.10	--	64	--
JUL								
31...	--	--	--	--	--	--	--	--
AUG								
28...	--	--	--	--	--	--	--	--

DATE	TIME	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO- GEN, ORGANIC DIS- SOLVED (MG/L AS N) (00607)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)
NOV								
28...	1400	.60	.56	.020	.020	.68	.48	.70
JAN								
04...	1250	.60	.60	.010	.020	.19	.18	.20
31...	1000	.60	.56	.040	.050	.26	.25	.30
FEB								
28...	0915	.50	.53	.020	<.010	.18	--	.20
MAR								
27...	0900	.60	.66	.040	.050	.36	.15	.40
APR								
26...	1015	.70	.70	.060	.070	.44	.13	.50
MAY								
30...	1115	.90	.90	.020	.020	1.5	.78	1.5
JUN								
29...	0930	.30	.22	.010	.030	.39	.37	.40

DATE	NITRO- GEN,NH4 + ORG. SUSP. TOTAL (MG/L AS N) (00624)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO- GEN, TOTAL (MG/L AS N) (00600)	NITRO- GEN DIS- SOLVED (MG/L AS N) (00602)	PHOS- PHORUS, TOTAL (MG/L AS P) (00665)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P) (00666)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
NOV							
28...	.20	.50	1.3	1.1	<.010	<.010	--
JAN							
04...	.00	.20	.80	.80	<.010	<.010	--
31...	.00	.30	.90	.86	<.010	<.010	1.4
FEB							
28...	.00	.20	.70	.73	<.010	<.010	1.6
MAR							
27...	.20	.20	1.0	.86	<.010	<.010	2.0
APR							
26...	.30	.20	1.2	.90	.010	.020	--
MAY							
30...	--	.80	2.4	--	.020	.010	--
JUN							
29...	--	.40	.70	--	<.010	<.010	--

15273095 LITTLE RABBIT CREEK ABOVE GOLDENVIEW DRIVE AT ANCHORAGE--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL) (01105)	ALUMINUM, SUSPENDED RECOV. (UG/L AS AL) (01107)	ALUMINUM, DISSOLVED (UG/L AS AL) (01106)	ARSENIC DISSOLVED (UG/L AS AS) (01000)	BORON, DISSOLVED (UG/L AS B) (01020)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	CADMIUM DISSOLVED (UG/L AS CD) (01025)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	CHROMIUM, DISSOLVED (UG/L AS CR) (01030)	COBALT, TOTAL RECOVERABLE (UG/L AS CO) (01037)
NOV 28...	1400	240	--	<10	--	--	<1	<1	6	<10	--
JAN 04...	1250	70	40	30	--	--	1	<1	<1	<10	--
31...	1000	80	50	30	--	--	1	<1	7	<10	--
FEB 28...	0915	10	0	10	--	--	<1	<1	4	<10	--
MAR 27...	0900	90	70	20	--	--	<1	<1	9	<10	--
APR 26...	1015	230	200	30	<1	20	<1	1	8	<10	<1
MAY 30...	1115	820	--	50	--	--	<1	1	4	<10	--
JUN 29...	0930	160	--	20	--	--	<1	<1	10	<10	--

DATE	COPPER, TOTAL RECOVERABLE (UG/L AS CU) (01042)	COPPER, SUSPENDED RECOVERABLE (UG/L AS CU) (01041)	COPPER, DISSOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)	IRON, SUSPENDED RECOVERABLE (UG/L AS FE) (01044)	IRON, DISSOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	LEAD, SUSPENDED RECOVERABLE (UG/L AS PB) (01050)	LEAD, DISSOLVED (UG/L AS PB) (01049)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MANGANESE, SUSPENDED RECOV. (UG/L AS MN) (01054)
NOV 28...	6	5	1	400	370	33	2	0	2	20	10
JAN 04...	5	0	8	110	80	28	<1	--	9	20	--
31...	7	--	<1	140	110	28	<1	--	<1	10	5
FEB 28...	4	2	2	90	70	18	1	--	<1	30	30
MAR 27...	6	2	4	280	250	34	1	--	<1	10	3
APR 26...	3	0	5	370	320	50	1	--	<1	30	20
MAY 30...	2	--	1	1100	--	48	<1	--	6	70	--
JUN 29...	10	--	2	320	--	270	<1	--	<1	<10	--

DATE	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	MERCURY DISSOLVED (UG/L AS HG) (71890)	MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO) (01062)	MOLYBDENUM, SUSPENDED RECOV. (UG/L AS MO) (01061)	MOLYBDENUM, DISSOLVED (UG/L AS MO) (01060)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI) (01067)	NICKEL, SUSPENDED RECOVERABLE (UG/L AS NI) (01066)	NICKEL, DISSOLVED (UG/L AS NI) (01065)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	ZINC, SUSPENDED RECOVERABLE (UG/L AS ZN) (01091)	ZINC, DISSOLVED (UG/L AS ZN) (01090)
NOV 28...	8	--	--	--	--	5	--	<1	20	10	9
JAN 04...	--	--	--	--	--	11	0	24	40	--	--
31...	5	--	--	--	--	10	6	4	40	30	11
FEB 28...	4	--	--	--	--	6	--	<1	20	10	7
MAR 27...	7	--	--	--	--	10	9	1	20	0	17
APR 26...	13	<.1	1	0	1	5	0	7	20	0	16
MAY 30...	19	--	--	--	--	28	--	<1	50	--	6
JUN 29...	8	--	--	--	--	19	--	1	20	--	30

15273095 LITTLE RABBIT CREEK ABOVE GOLDENVIEW DRIVE AT ANCHORAGE--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
NOV				
28...	1400	--	19	--
JAN				
04...	1250	2.1	2	.01
31...	1000	--	3	--
FEB				
28...	0915	1.5	1	.00
MAR				
27...	0900	1.6	2	.00
APR				
26...	1015	3.1	6	.05
MAY				
30...	1115	14	29	1.1
JUN				
29...	0930	7.3	4	.08
JUL				
31...	1300	3.9	2	.02
AUG				
28...	1300	7.7	8	.17

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), NOVEMBER 1983 TO SEPTEMBER 1984

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1				---	---	---	132	131	131	---	---	---
2				---	---	---	133	122	131	---	---	---
3				---	---	---	121	114	116	---	---	---
4				---	---	---	136	116	125	---	---	---
5				---	---	---	136	134	135	---	---	---
6				---	---	---	139	135	136	---	---	---
7				---	---	---	139	138	139	136	134	135
8				---	---	---	142	139	140	136	135	136
9				---	---	---	143	141	142	138	136	137
10				---	---	---	144	141	142	139	138	139
11				---	---	---	143	140	141	141	139	140
12				---	---	---	141	139	140	141	134	138
13				---	---	---	140	138	139	139	133	135
14				---	---	---	139	138	139	144	139	142
15				---	---	---	140	138	139	147	144	145
16				---	---	---	141	139	140	148	146	147
17				---	---	---	141	140	141	150	148	149
18				---	---	---	141	140	141	151	150	151
19				128	123	126	142	140	141	152	151	152
20				139	127	132	142	141	141	155	152	154
21				138	131	135	142	140	141	157	156	157
22				132	126	129	142	140	141	157	155	156
23				135	126	132	143	140	141	160	156	158
24				135	131	133	143	142	143	161	159	160
25				137	132	135	---	---	---	165	161	163
26				136	132	134	---	---	---	166	164	165
27				138	131	133	---	---	---	167	165	166
28				137	131	133	---	---	---	168	167	167
29				131	129	130	---	---	---	170	169	170
30				132	130	131	---	---	---	171	169	170
31				---	---	---	---	---	---	172	170	171
MONTH										172	133	152

15273095 LITTLE RABBIT CREEK ABOVE GOLDENVIEW DRIVE AT ANCHORAGE--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), NOVEMBER 1983 TO SEPTEMBER 1984

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	173	171	172	---	---	---	161	158	160	157	153	155
2	175	174	175	---	---	---	162	159	161	155	149	152
3	175	173	174	---	---	---	163	161	162	152	146	150
4	175	173	174	---	---	---	---	---	---	150	145	147
5	175	174	174	---	---	---	---	---	---	150	146	148
6	175	174	174	---	---	---	---	---	---	208	147	159
7	174	173	173	---	---	---	---	---	---	151	144	147
8	174	172	173	157	150	154	---	---	---	147	140	144
9	173	171	172	150	135	141	---	---	---	145	139	142
10	172	169	171	137	130	134	---	---	---	176	141	146
11	173	171	172	140	132	134	168	166	167	143	139	141
12	173	171	172	145	140	143	174	171	173	145	139	141
13	172	170	171	148	144	145	178	176	177	143	139	141
14	173	171	172	150	147	149	182	177	180	143	137	140
15	173	170	172	152	149	150	181	178	179	142	137	139
16	174	171	172	157	150	152	182	180	181	139	136	138
17	175	173	174	154	152	153	185	184	185	140	135	137
18	173	171	172	154	152	153	190	188	189	182	130	136
19	173	170	171	154	153	154	196	193	195	134	129	132
20	171	169	170	155	153	154	203	200	202	135	131	133
21	170	168	169	156	154	155	204	186	198	134	131	132
22	172	169	171	157	155	156	215	200	209	136	131	133
23	171	169	170	158	156	157	221	218	219	131	128	130
24	170	168	169	158	156	157	223	208	219	130	127	128
25	171	169	170	159	157	158	229	162	212	132	126	129
26	171	170	171	160	158	159	169	159	165	132	129	130
27	170	169	170	160	157	159	163	151	158	134	129	131
28	---	---	---	160	157	159	157	150	154	135	128	131
29	---	---	---	161	159	160	155	150	153	132	127	129
30	---	---	---	162	160	161	157	155	156	131	126	128
31	---	---	---	162	159	161	---	---	---	129	126	127
MONTH	175	168	172	162	130	152	229	150	181	208	126	139

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	126	122	124	118	115	116	125	123	124	116	110	113
2	121	117	119	121	117	119	128	124	126	117	114	115
3	120	114	117	121	119	120	129	127	128	118	115	116
4	117	112	114	123	119	121	---	---	---	120	116	118
5	113	109	111	123	118	120	---	---	---	122	117	119
6	109	107	108	123	119	121	---	---	---	121	118	119
7	107	103	105	122	118	120	---	---	---	121	117	119
8	104	95	101	125	118	122	---	---	---	121	119	120
9	95	89	93	128	123	125	---	---	---	125	118	121
10	91	88	90	124	122	124	---	---	---	127	121	123
11	92	89	91	125	121	123	---	---	---	123	120	122
12	92	89	91	125	121	123	---	---	---	126	121	123
13	91	89	90	125	122	123	---	---	---	126	122	124
14	93	89	91	126	122	124	---	---	---	132	121	126
15	99	91	96	126	122	124	---	---	---	132	128	130
16	106	98	100	125	123	124	---	---	---	129	127	128
17	106	104	105	125	123	124	---	---	---	134	128	131
18	108	104	106	126	124	125	---	---	---	141	130	136
19	110	105	107	126	125	126	---	---	---	136	120	130
20	112	105	108	125	124	125	---	---	---	130	105	114
21	111	105	108	126	124	125	---	---	---	108	104	106
22	113	106	109	124	121	123	---	---	---	106	103	104
23	112	108	110	123	121	122	---	---	---	106	104	105
24	112	106	109	124	121	123	---	---	---	109	106	107
25	113	108	111	126	123	124	133	96	117	112	107	110
26	114	110	112	127	125	126	97	90	93	110	107	109
27	114	111	112	128	126	127	101	92	97	112	109	111
28	117	110	113	128	126	127	105	101	103	115	112	113
29	116	112	114	128	126	127	109	104	107	128	113	119
30	116	112	114	128	126	127	112	109	110	122	107	116
31	---	---	---	128	125	127	111	108	110	---	---	---
MONTH	126	88	106	128	115	123				141	103	118

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TEMPERATURE, WATER (DEG. C), NOVEMBER 1983 TO SEPTEMBER 1984

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1				---	---	---	1.0	.5	1.0	---	---	---
2				---	---	---	.5	.0	.0	---	---	---
3				---	---	---	.0	.0	.0	---	---	---
4				---	---	---	.5	.0	.0	---	---	---
5				---	---	---	.5	.0	.5	---	---	---
6				---	---	---	.0	.0	.0	.5	---	---
7				---	---	---	.0	.0	.0	.5	.0	.5
8				---	---	---	.0	.0	.0	.5	.0	.0
9				---	---	---	.0	.0	.0	.5	.5	.5
10				---	---	---	.0	.0	.0	.5	.5	.5
11				---	---	---	.0	.0	.0	.5	.5	.5
12				---	---	---	.0	.0	.0	.5	.0	.5
13				---	---	---	.5	.0	.0	.5	.0	.0
14				---	---	---	.5	.0	.0	1.0	.5	.5
15				---	---	---	.5	.0	.5	1.0	.5	.5
16				---	---	---	.5	.5	.5	.5	.5	.5
17				---	---	---	.5	.5	.5	1.0	.5	.5
18				---	---	---	.5	.5	.5	1.0	.5	.5
19				.5	.5	.5	.5	.5	.5	.5	.5	.5
20				.0	.0	.0	.5	.5	.5	.5	.5	.5
21				.5	.0	.5	.5	.0	.5	.5	.5	.5
22				.5	.5	.5	.5	.0	.0	.5	.5	.5
23				.5	.5	.5	.0	.0	.0	.5	.5	.5
24				.5	.0	.5	.0	.0	.0	.5	.5	.5
25				.5	.0	.5	---	---	---	.5	.5	.5
26				1.0	.5	.5	---	---	---	.5	.5	.5
27				1.0	.5	.5	---	---	---	.5	.5	.5
28				1.0	.5	.5	---	---	---	.5	.5	.5
29				1.0	.5	1.0	---	---	---	1.0	.5	.5
30				1.0	1.0	1.0	---	---	---	1.0	1.0	1.0
31				---	---	---	---	---	---	1.0	1.0	1.0
MONTH					.0	.5	1.0	.0	.0	1.0	.0	.5

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	.5	.5	.5	---	---	---	1.5	1.0	1.0	1.5	.5	1.0
2	1.0	.5	1.0	---	---	---	1.5	1.0	1.0	2.0	.5	1.0
3	1.0	1.0	1.0	---	---	---	1.5	.5	1.0	2.0	.5	1.0
4	1.0	1.0	1.0	---	---	---	---	---	---	2.5	.5	1.0
5	1.0	1.0	1.0	---	---	---	---	---	---	2.5	.5	1.5
6	1.0	1.0	1.0	---	---	---	---	---	---	3.0	.5	1.5
7	1.5	1.0	1.0	---	---	---	---	---	---	3.5	.0	1.5
8	1.0	1.0	1.0	1.0	.5	1.0	---	---	---	4.0	.0	1.5
9	1.0	1.0	1.0	.5	.5	.5	---	---	---	4.0	.5	2.0
10	1.0	1.0	1.0	.5	.5	.5	---	---	---	4.5	.5	2.0
11	1.0	1.0	1.0	1.0	.5	.5	1.5	.5	1.0	4.5	.5	2.0
12	1.0	1.0	1.0	1.0	.5	1.0	1.5	.5	1.0	5.0	.0	2.0
13	1.0	1.0	1.0	1.0	.5	1.0	1.5	1.0	1.0	5.5	.5	2.5
14	1.5	1.0	1.0	1.0	1.0	1.0	1.5	.5	1.0	6.0	1.0	3.0
15	1.5	1.0	1.0	1.5	1.0	1.0	1.5	.5	1.0	6.0	1.0	3.0
16	1.0	1.0	1.0	1.5	1.0	1.0	1.0	.5	.5	5.0	2.0	3.5
17	1.0	1.0	1.0	1.5	1.0	1.0	1.5	.5	1.0	6.5	1.5	3.5
18	1.0	1.0	1.0	1.0	.5	.5	1.5	.5	1.0	7.0	2.0	4.0
19	1.0	1.0	1.0	.5	.5	.5	1.0	.5	.5	6.5	2.0	4.0
20	1.0	1.0	1.0	1.0	.5	.5	1.5	.5	1.0	6.5	2.0	4.0
21	1.0	1.0	1.0	1.0	.5	.5	1.5	.5	1.0	5.0	3.0	4.0
22	1.0	1.0	1.0	.5	.5	.5	1.0	.0	.5	6.0	2.0	3.5
23	1.0	1.0	1.0	.5	.5	.5	1.0	.0	.5	8.0	2.0	4.5
24	1.0	1.0	1.0	1.0	.5	.5	1.5	.5	1.0	7.0	2.0	4.5
25	1.0	1.0	1.0	1.0	.5	1.0	1.5	.0	1.0	5.5	2.5	4.0
26	1.0	1.0	1.0	1.5	1.0	1.0	1.5	.5	1.0	6.0	2.5	4.0
27	1.0	1.0	1.0	1.5	1.0	1.0	1.5	.0	1.0	7.5	2.0	4.5
28	---	---	---	1.5	.5	1.0	1.0	.0	.5	8.5	1.5	5.0
29	---	---	---	1.5	1.0	1.0	1.0	.5	.5	6.5	2.0	4.5
30	---	---	---	1.5	1.0	1.0	1.5	.5	1.0	5.5	3.5	4.0
31	---	---	---	1.5	1.0	1.0	---	---	---	6.0	2.5	4.0
MONTH	1.5	.5	1.0	1.5	.5	1.0	1.5	.0	1.0	8.5	.0	3.0

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15273095 LITTLE RABBIT CREEK ABOVE GOLDENVIEW DRIVE AT ANCHORAGE--Continued

TEMPERATURE, WATER (DEG. C), NOVEMBER 1983 TO SEPTEMBER 1984

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	9.0	2.5	5.5	7.0	6.0	6.5	9.0	7.5	8.5	6.5	3.5	5.0
2	9.5	3.0	6.0	8.0	5.5	6.5	9.0	8.0	8.5	6.5	3.5	5.0
3	9.5	3.5	6.0	8.0	6.0	7.0	8.5	8.0	8.0	6.5	3.5	5.0
4	10.0	3.5	6.5	10.5	6.0	8.0	---	---	---	7.0	4.5	5.5
5	9.5	4.0	6.5	10.5	6.5	8.0	---	---	---	7.0	4.0	5.5
6	6.0	4.5	5.5	10.5	6.5	8.5	---	---	---	6.5	4.0	5.5
7	8.5	4.0	6.0	10.5	6.5	8.5	---	---	---	7.0	5.5	6.5
8	7.0	4.5	5.5	8.5	7.5	8.0	---	---	---	7.5	5.5	6.5
9	8.5	4.0	6.0	9.0	7.5	8.0	---	---	---	7.0	5.0	6.0
10	8.5	4.0	6.0	9.0	7.0	7.5	---	---	---	7.0	4.5	5.5
11	9.0	4.0	6.5	9.5	6.5	8.0	---	---	---	6.5	4.5	5.5
12	9.5	5.5	7.0	9.5	6.0	7.5	---	---	---	7.0	5.0	6.0
13	7.0	5.5	6.5	9.5	7.0	8.0	---	---	---	7.5	6.0	6.5
14	7.5	4.5	6.0	8.5	5.5	7.0	---	---	---	7.5	5.5	6.5
15	6.5	5.0	5.5	9.5	6.0	7.5	---	---	---	7.0	5.5	6.5
16	6.0	5.0	5.5	8.5	7.0	8.0	---	---	---	6.5	4.5	5.5
17	7.5	5.0	6.0	7.5	7.0	7.0	---	---	---	7.0	5.5	6.0
18	9.5	4.5	6.5	7.5	6.5	7.0	---	---	---	7.5	6.0	6.5
19	9.5	4.5	7.0	7.5	6.5	7.0	---	---	---	7.0	5.5	6.5
20	10.0	4.5	7.0	7.5	6.5	7.0	---	---	--	6.0	5.0	5.5
21	10.0	5.0	7.0	10.0	7.0	8.0	---	---	---	6.0	4.0	5.0
22	10.5	5.0	7.5	9.5	7.5	8.5	---	---	---	5.5	3.5	4.5
23	9.0	5.5	7.0	9.5	7.5	8.5	---	---	---	6.0	5.0	5.5
24	9.5	6.0	7.5	9.5	7.5	8.5	9.5	---	---	6.0	5.0	5.5
25	8.0	6.0	7.0	9.0	7.5	8.0	9.0	7.5	8.5	6.5	5.0	5.5
26	7.5	5.5	6.5	9.5	7.5	8.0	7.5	5.5	6.5	6.0	4.0	5.0
27	7.0	5.5	6.5	10.0	7.5	8.5	6.5	4.0	5.0	6.0	5.0	5.5
28	9.5	4.0	6.5	9.5	7.5	8.5	6.5	3.5	5.0	5.5	4.5	5.0
29	9.5	6.5	7.5	8.5	7.5	8.0	6.5	3.5	5.0	6.5	5.0	5.5
30	7.5	5.5	6.5	9.5	7.0	8.5	3.5	3.0	4.5	6.0	5.0	5.5
31	---	---	---	9.5	8.0	8.0	5.5	2.5	4.0	---	---	---
MONTH	10.5	2.5	6.5	10.5	5.5	8.0				7.5	3.5	5.5
YEAR	10.5	.0	3.0									

15273105 RABBIT CREEK AT NEW SEWARD HIGHWAY AT ANCHORAGE

LOCATION.--Lat 61°04'35", long 149°49'37", in SW¼ sec.4, T.11 N., R.3 W., Municipality of Anchorage, Hydrologic Unit 19050002, at outlet of Potter Marsh, on upstream side of culverts near mile 117 of New Seward Highway and 10 mi south of downtown Anchorage Post Office.

DRAINAGE AREA.--24.5 mi², approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1983 to September 1984.

GAGE.--Water-stage, velocity, and flow-direction recorders. Altitude of gage is 36 ft, from topographic map. No gage prior to Mar. 19, 1984.

REMARKS.--Water-discharge records poor. Some high tides cause backwater conditions and extreme high tides create reverse flow into Potter Marsh. The tide affected dates (when gage-height record was available) were Mar. 19-21, Apr. 12, 14-16, May 13-17, Aug. 1-2, 25-31, Sept. 1, and 24-29.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, about 130 ft³/s Oct. 10; minimum daily, about 9.8 ft³/s Feb. 28 to Mar. 1; greatest reverse flow measured, 131 ft³/s Apr. 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	27	20	14	14	9.8	19	38	58	39	20	28
2	24	26	20	13	14	10	18	40	61	40	20	24
3	23	26	20	13	13	10	19	42	64	38	18	24
4	22	26	20	13	13	10	18	39	66	36	18	23
5	25	26	20	13	13	10	18	41	64	34	17	22
6	28	25	19	13	13	10	19	42	62	32	18	22
7	22	25	18	13	13	10	16	44	60	30	17	21
8	22	25	18	13	12	11	15	40	59	40	17	21
9	24	25	18	13	12	11	14	44	58	54	17	21
10	130	24	17	13	12	14	15	45	54	40	16	21
11	110	24	17	13	11	15	14	45	50	35	18	21
12	90	24	16	13	11	14	15	43	50	31	17	20
13	70	24	16	13	10	12	15	48	50	33	15	20
14	62	23	15	14	10	12	14	54	50	35	15	21
15	56	23	15	14	10	12	14	56	58	30	14	22
16	53	23	15	14	10	13	15	56	64	27	15	21
17	50	23	15	14	10	13	15	58	60	26	17	21
18	47	22	15	14	10	13	15	52	56	26	19	27
19	44	22	15	14	10	12	16	52	52	26	21	80
20	40	22	15	14	10	12	17	51	50	25	25	59
21	37	22	15	14	10	13	21	53	48	25	19	49
22	35	21	14	14	10	13	24	56	45	24	20	40
23	34	21	14	14	10	13	20	48	45	23	20	34
24	33	20	14	14	10	12	20	48	45	21	23	34
25	32	20	14	14	10	13	20	48	44	20	100	34
26	31	20	14	14	10	15	20	52	44	25	60	33
27	30	20	14	14	10	16	23	49	44	24	40	32
28	30	20	14	14	9.8	16	34	44	44	23	29	31
29	29	20	14	14	9.8	16	33	43	43	23	28	67
30	28	20	14	14	---	16	37	56	38	23	27	60
31	27	---	14	14	---	18	---	56	---	24	26	---
TOTAL	1313	689	499	422	320.6	394.8	573	1483	1586	932	746	953
MEAN	42.4	23.0	16.1	13.6	11.1	12.7	19.1	47.8	52.9	30.1	24.1	31.8
MAX	130	27	20	14	14	18	37	58	66	54	100	80
MIN	22	20	14	13	9.8	9.8	14	38	38	20	14	20
CFSM	1.73	.94	.66	.56	.45	.52	.78	1.95	2.16	1.23	.98	1.30
IN.	1.99	1.05	.76	.64	.49	.60	.87	2.25	2.41	1.42	1.13	1.45
AC-FT	2600	1370	990	837	636	783	1140	2940	3150	1850	1480	1890

WTR YR 1984 TOTAL 9911.4 MEAN 27.1 MAX 130 MIN 9.8 CFSM 1.11 IN 15.05 AC-FT 19660

NOTE.--No gage-height record prior to Mar. 18 and June 1 to July 30.

15273105 RABBIT CREEK AT NEW SEWARD HIGHWAY AT ANCHORAGE--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 1983 to September 1984.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: March to May and August to September 1984 (fragmentary).
WATER TEMPERATURE: March to May and August to September 1984 (fragmentary.)

INSTRUMENTATION.--Water-quality monitor and recorder since Mar. 1984.

REMARKS.--Period of no record due to equipment malfunction with the exception of the period June and July which was the result of gage being destroyed by auto accident. No cross-sections were obtained during the water year. Recorded temperatures were found to be within 0.5° of probe temperatures. Recorded conductance values (>1000 micromhos) during extreme high tide are fair because range of values exceeds instrument calibration.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum recorded, 38,300 micromhos/cm at 25°C, Mar. 19; minimum recorded, 90 micromhos/cm at 25°C, Aug. 26.
WATER TEMPERATURE: Maximum recorded, 16.5°C Aug. 1,24 and Sept. 13; minimum, 0.0°C on many days in March and April.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS) (00061)	SPECIFIC CONDUCTANCE (UMHOS) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE (DEG C) (00010)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
NOV								
28...	1145	--	105	6.8	.0	--	12.2	--
JAN								
04...	1430	15	120	7.5	.0	766	13.5	92
31...	1330	14	--	7.5	.0	755	14.7	101
FEB								
28...	1200	9.8	234	7.8	.0	747	12.6	88
MAR								
19...	0840	-10	--	--	--	--	--	--
19...	1023	-55	--	--	--	--	--	--
19...	1100	58	--	--	--	--	--	--
27...	1015	15	290	--	.5	757	11.1	78
APR								
16...	0556	E-10	--	--	--	--	--	--
16...	0606	E-35	--	--	--	--	--	--
16...	0616	-80	--	--	--	--	--	--
16...	0626	-110	--	--	--	--	--	--
16...	0706	-120	--	--	--	--	--	--
26...	1420	19	218	7.8	3.0	771	12.4	91
MAY								
30...	1400	54	135	7.9	6.0	758	10.4	84
JUN								
29...	1230	42	91	7.4	9.5	753	10.2	90
JUL								
31...	1415	24	262	7.4	13.0	762	10.3	98
31...	1443	24	248	7.5	13.0	762	8.7	83
AUG								
28...	0915	.00	13400	7.9	6.5	761	10.7	92

DATE	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	HARDNESS (MG/L AS CACO3) (00900)	HARDNESS, NONCARBONATE (MG/L CACO3) (00902)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	ALKALINITY FIELD (MG/L AS CACO3) (00410)	ALKALINITY, CARBONATE IT-FLD (MG/L - CACO3) (99430)
NOV									
28...	K4	42	5	13	2.4	3.0	.40	--	--
JAN									
04...	K4	49	8	15	2.8	4.0	.50	--	--
31...	K2	52	18	16	3.0	4.3	.60	--	34
FEB									
28...	K4	63	18	17	5.1	21	1.0	--	--
MAR									
19...	--	3600	3500	250	720	6000	190	--	--
19...	--	2200	2100	130	450	3600	130	--	--
19...	--	1500	1400	120	290	2300	81	--	--
27...	--	70	19	18	6.1	24	1.9	51	--

E ESTIMATED
K NON-IDEAL COLONY COUNT

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	HARD-NESS (MG/L AS CACO3) (00900)	HARD-NESS, NONCAR-BONATE (MG/L CACO3) (00902)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY FIELD (MG/L AS CACO3) (00410)	ALKA-LINITY, CARBON-ATE IT-FLD (MG/L - CACO3) (99430)
APR									
16...	--	1000	980	89	200	1600	64	--	--
16...	--	1700	1600	120	330	2500	100	--	--
16...	--	2400	2300	170	470	3600	130	--	--
16...	--	2800	2700	200	560	4200	150	--	--
16...	--	3100	3000	210	630	5300	200	--	--
26...	--	71	22	20	5.2	16	1.0	49	--
MAY									
30...	--	54	25	16	3.4	6.8	.80	--	30
JUN									
29...	--	41	13	13	2.1	3.0	.60	--	28
JUL									
31...	--	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--	--
AUG									
28...	--	--	--	--	--	--	--	--	--

DATE	BICAR-BONATE IT-FLD (MG/L AS HCO3) (99440)	CAR-BONATE IT-FLD (MG/L AS CO3) (99445)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)
NOV								
28...	--	--	9.9	3.1	<.10	8.6	67	63
JAN								
04...	--	--	11	5.3	<.10	8.8	87	72
31...	42	.000	11	5.3	<.10	8.9	72	70
FEB								
28...	--	--	17	36	<.10	9.3	132	130
MAR								
19...	--	--	1500	11000	.60	3.8	20100	20000
19...	--	--	950	6500	.40	6.2	12400	12000
19...	--	--	600	4400	.30	7.1	7700	7800
27...	--	--	12	41	<.10	8.2	155	140
APR								
16...	--	--	430	3200	.30	6.5	5760	5600
16...	--	--	690	4800	.40	5.6	9100	8600
16...	--	--	970	7200	.50	4.6	13100	13000
16...	--	--	1200	8400	.50	4.2	15700	15000
16...	--	--	1400	9900	.50	3.6	18200	18000
26...	--	--	12	28	<.10	7.7	147	120
MAY								
30...	36	--	10	8.6	<.10	7.3	100	71
JUN								
29...	34	--	7.6	3.2	<.10	6.3	51	53
JUL								
31...	--	--	--	--	--	--	--	--
31...	--	--	--	--	--	--	--	--
AUG								
28...	--	--	--	--	--	--	--	--

15273105 RABBIT CREEK AT NEW SEWARD HIGHWAY AT ANCHORAGE--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)
NOV								
28...	1145	.40	.41	.030	.040	.57	.26	.60
JAN								
04...	1430	.40	.38	.090	.120	.51	.18	.60
31...	1330	.40	.42	.020	.020	--	--	<.20
FEB								
28...	1200	.50	.43	.030	.020	--	--	<.20
MAR								
27...	1015	.30	.39	.040	.050	.36	.15	.40
APR								
26...	1420	.70	.62	.050	.090	.65	.21	.70
MAY								
30...	1400	.70	.72	.030	.040	.27	.26	.30
JUN								
29...	1230	.20	.13	.010	.010	.19	.19	.20

DATE	NITRO-GEN,NH4 + ORG. SUSP. TOTAL (MG/L AS N) (00624)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	NITRO-GEN DIS-SOLVED (MG/L AS N) (00602)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P) (00666)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)
NOV							
28...	.30	.30	1.0	.71	<.010	<.010	--
JAN							
04...	.30	.30	1.0	.68	.020	<.010	--
31...	--	<.20	--	--	.010	<.010	1.1
FEB							
28...	--	<.20	--	--	<.010	<.010	1.2
MAR							
27...	.20	.20	.70	.59	.040	.010	3.7
APR							
26...	.40	.30	1.4	.92	.010	.010	--
MAY							
30...	--	.30	1.0	--	.020	.010	--
JUN							
29...	--	.20	.40	--	.010	<.010	--

DATE	TIME	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ALUM-INUM, SUS-PENDED RECOV. (UG/L AS AL) (01107)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	BORON, DIS-SOLVED (UG/L AS B) (01020)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO) (01037)
NOV											
28...	1145	140	--	<10	--	--	<1	<1	7	<10	--
JAN											
04...	1430	270	250	20	--	--	1	<1	1	<10	--
31...	1330	300	280	20	--	--	1	<1	150	<10	--
FEB											
28...	1200	20	10	10	--	--	<1	<1	5	<10	--
MAR											
27...	1015	800	780	20	--	--	<1	<1	7	<10	--
APR											
26...	1420	220	200	20	<1	40	<1	<1	6	<10	<1
MAY											
30...	1400	410	--	30	--	--	2	<1	4	<10	--
JUN											
29...	1230	190	--	20	--	--	<1	<1	4	<10	--

15273105 RABBIT CREEK AT NEW SEWARD HIGHWAY AT ANCHORAGE--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	COPPER, SUS-PENDED RECOV-ERABLE (UG/L AS CU) (01041)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, SUS-PENDED RECOV-ERABLE (UG/L AS FE) (01044)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, SUS-PENDED RECOV. (UG/L AS MN) (01054)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)
NOV											
28...	2	0	3	330	240	89	<1	3	40	10	28
JAN											
04...	4	1	3	520	380	140	<1	<1	80	10	68
31...	13	--	<1	1400	1300	110	3	<1	70	30	37
FEB											
28...	5	--	<1	420	170	250	2	<1	80	20	57
MAR											
27...	6	3	3	1700	1300	390	<1	1	260	30	230
APR											
26...	3	1	2	600	420	180	4	<1	70	20	52
MAY											
30...	3	--	1	780	--	98	<1	2	50	--	19
JUN											
29...	8	--	2	430	--	120	<1	<1	40	--	27

DATE	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	MOLYB-DENUM, TOTAL RECOV-ERABLE (UG/L AS MO) (01062)	MOLYB-DENUM, SUS-PENDED RECOV. (UG/L AS MO) (01061)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	NICKEL, SUS-PENDED RECOV-ERABLE (UG/L AS NI) (01066)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ZINC, SUS-PENDED RECOV-ERABLE (UG/L AS ZN) (01091)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)
NOV										
28...	--	--	--	--	7	1	6	10	0	15
JAN										
04...	--	--	--	--	11	3	8	40	20	17
31...	--	--	--	--	46	42	4	20	0	19
FEB										
28...	--	--	--	--	5	1	4	10	0	6
MAR										
27...	--	--	--	--	4	--	<1	40	30	8
APR										
26...	<.1	1	0	1	6	3	3	10	0	22
MAY										
30...	--	--	--	--	20	--	5	20	--	14
JUN										
29...	--	--	--	--	12	--	<1	30	--	14

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
NOV				
28...	1145	--	6	--
JAN				
04...	1430	15	8	.32
31...	1330	14	8	.30
FEB				
28...	1200	9.8	5	.13
MAR				
19...	0840	-10	* 358	-9.7
19...	1023	-55	* 475	-71
20...	0825	-80	*1780	-384
20...	0835	-80	*1250	-270
20...	0855	-60	* 647	-105
20...	0910	-30	* 480	-39
20...	0930	.00	* 385	.00
20...	0945	50	* 369	50
20...	0955	55	* 349	52
20...	1005	55	* 364	54
20...	1020	55	* 493	73
20...	1045	50	* 307	41
20...	1100	50	250	34
27...	1015	15	32	1.3

* COLLECTED AUTOMATICALLY WITH A SINGLE-STAGE SEDIMENT SAMPLER

15273105 RABBIT CREEK AT NEW SEWARD HIGHWAY AT ANCHORAGE--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
APR				
16...	0556	E-10	*1370	--
16...	0606	E-35	*2440	--
16...	0616	-80	*2400	-518
16...	0626	-110	*2120	-630
16...	0636	-120	*1540	-499
16...	0656	-135	* 783	-285
16...	0706	-120	* 576	-187
16...	0716	-80	* 468	-101
16...	0746	.00	* 283	.00
16...	0806	60	* 237	38
16...	0836	70	* 276	52
16...	0926	60	* 129	21
26...	1420	19	5	.26
MAY				
15...	0701	-50	* 268	-36
15...	0716	-60	* 277	-45
15...	0731	-70	* 228	-43
15...	0746	-70	* 178	-34
15...	0801	.00	* 152	.00
15...	0816	60	* 143	23
15...	0831	56	* 115	17
16...	0746	-48	* 278	-36
16...	0801	-52	* 268	-38
16...	0816	-55	* 236	-35
16...	0831	E5.0	* 198	--
16...	0846	74	* 153	31
16...	0901	66	* 135	24
17...	0846	-60	* 173	-28
17...	0901	-66	* 123	-22
17...	0916	.00	* 96	.00
30...	1400	54	13	1.9
JUN				
29...	1230	42	6	.68
JUL				
31...	1455	24	23	1.5
AUG				
24...	1751	22	* 19	1.1
24...	1941	24	* 23	1.5
24...	2141	26	* 36	2.5
25...	1535	51	* 113	16
25...	1950	70	* 54	10
27...	0641	60	* 8	1.3
27...	0701	-40	* 7	-.76
27...	0721	-85	* 5	-1.1
27...	0741	-20	* 404	-22
27...	0801	-10	* 554	-15
27...	0821	.00	* 361	.00
27...	0841	10	* 258	7.0
27...	0901	20	* 159	8.6
27...	0941	95	* 24	6.2
27...	1041	80	* 11	2.4
27...	1141	75	* 11	2.2
28...	0651	60	* 7	1.1
28...	0731	59	* 4	.64
28...	0751	-40	* 4	-.43
28...	0801	-75	* 168	-34
28...	0811	-50	* 449	-61
28...	0821	-35	* 570	-54
28...	0831	-20	* 584	-32
28...	0840	-10	* 316	-8.5
28...	0851	.00	* 421	.00
28...	0910	.00	* 278	.00
28...	0921	.00	* 233	.00
28...	0931	100	* 320	86
28...	0941	100	* 256	69
28...	0951	90	* 258	63
28...	1011	85	* 184	42
28...	1041	80	* 32	18
28...	1111	76	* 12	2.5
30...	0931	51	* 6	.83
30...	0951	.00	* 7	.00
30...	1011	-55	* 212	-31

E ESTIMATED
* COLLECTED AUTOMATICALLY WITH A SINGLE-STAGE SEDIMENT SAMPLER

15273105 RABBIT CREEK AT NEW SEWARD HIGHWAY AT ANCHORAGE--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
AUG				
30...	1031	75	* 22	4.5
30...	1051	65	* 6	1.1
30...	1121	55	* 6	.89
30...	1201	52	* 8	1.1
30...	1241	51	* 8	1.1
31...	2221	40	* 7	.76
31...	2241	-5.0	* 8	-.11
31...	2301	-55	* 486	-72
31...	2311	-60	* 551	-89
31...	2321	.00	* 513	.00
31...	2341	80	* 374	81
31...	2351	70	* 292	55
SEP				
01...	0011	59	* 209	33
01...	0051	52	* 15	2.1
01...	0151	49	* 8	1.1
01...	0411	45	* 6	.73
24...	0631	-10	* 69	-1.9
24...	0651	-30	* 246	-20
24...	0701	.00	* 296	.00
24...	0721	52	* 178	25
24...	0731	47	* 103	13
24...	0811	42	* 5	.57
24...	0911	39	* 28	2.9
25...	0711	-30	* 12	-.97
25...	0721	-35	* 536	-51
25...	0731	-45	* 619	-75
25...	0741	-55	* 554	-82
25...	0751	-65	* 541	-95
25...	0801	.00	* 418	.00
25...	0821	70	* 348	66
25...	0841	60	* 269	44
25...	0911	55	* 134	20
25...	0951	51	* 18	2.5
25...	1031	50	* 8	1.1
25...	1101	48	* 6	.78
26...	0721	.00	* 17	.00
26...	0741	-18	* 4	-.19
26...	0751	-35	* 429	-41
26...	0801	-48	* 860	-111
26...	0811	-65	* 778	-137
26...	0821	-70	* 603	-114
26...	0831	-75	* 520	-105
26...	0851	.00	* 644	.00
26...	0911	80	* 430	93
26...	0931	70	* 363	69
26...	1001	64	* 195	34
26...	1031	60	* 36	5.8
26...	1121	55	* 12	1.8
27...	0821	.00	* 10	.00
27...	0841	-19	* 4	-.21
27...	0851	-35	* 339	-32
27...	0901	-40	* 608	-66
27...	0911	-55	* 667	-99
27...	0921	-60	* 534	-87
27...	0941	.00	* 311	.00
27...	1001	60	* 296	48
27...	1031	55	* 167	25
27...	1111	51	* 15	2.1
27...	1151	50	* 8	1.1
27...	2021	-10	* 8	-.22
27...	2031	-25	* 568	-38
27...	2041	-40	* 921	-99
27...	2051	-50	*1010	-136
27...	2101	-65	* 803	-141
27...	2121	-80	* 724	-156
27...	2141	-90	* 610	-148
27...	2201	.00	* 542	.00
27...	2221	80	* 476	103
27...	2241	76	* 316	65
27...	2311	68	* 176	32
27...	2341	62	* 48	8.0
28...	0011	59	* 24	3.8

* COLLECTED AUTOMATICALLY WITH A SINGLE-STAGE SEDIMENT SAMPLER

BEST COPY AVAILABLE

15273105 RABBIT CREEK AT NEW SEWARD HIGHWAY AT ANCHORAGE--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), MARCH TO SEPTEMBER 1984

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1				---	---	---	210	180	195	---	---	---
2				---	---	---	200	180	191	200	160	182
3				---	---	---	200	180	186	190	160	172
4				---	---	---	200	180	188	200	170	174
5				---	---	---	210	180	191	180	160	168
6				---	---	---	230	180	197	180	160	165
7				---	---	---	220	190	206	---	---	---
8				---	---	---	220	200	206	---	---	---
9				---	---	---	200	190	200	---	---	---
10				---	---	---	200	190	192	160	150	154
11				---	---	---	200	190	192	160	140	151
12				---	---	---	200	190	192	160	140	151
13				---	---	---	210	190	201	170	150	155
14				---	---	---	26700	200	3700	24600	140	1590
15				---	---	---	31000	250	8190	28400	140	2460
16				---	---	---	27900	1250	9310	27400	150	2130
17				---	---	---	31500	1420	9020	24200	150	1430
18				35100	3410	11700	30100	1550	8650	150	130	141
19				38300	2100	10700	970	930	949	140	130	133
20				35800	680	6100	950	650	819	140	130	133
21				32400	440	2890	840	480	638	140	120	130
22				630	390	460	240	100	160	130	120	129
23				520	310	395	320	180	252	140	130	131
24				390	270	324	320	250	283	130	120	128
25				390	270	313	---	---	---	130	120	124
26				430	290	341	---	---	---	140	130	134
27				330	220	287	---	---	---	140	130	135
28				280	210	240	220	170	202	140	130	131
29				240	210	224	---	---	---	130	120	129
30				230	200	211	---	---	---	150	120	132
31				230	200	208	---	---	---	140	130	135
MONTH							31500	100	1790	28400	120	405

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1							13500	140	---	1210	140	167
2							3120	130	213	---	---	139
3							130	120	125	---	---	132
4							130	120	121	---	---	129
5							120	120	120	---	---	129
6							120	110	120	---	---	138
7							120	120	120	---	---	139
8							140	100	120	---	---	149
9							---	---	125	---	---	142
10							---	---	120	---	---	130
11							---	---	129	---	---	122
12							---	---	125	---	---	114
13							---	---	125	---	---	120
14							---	---	120	---	---	128
15							---	---	120	---	---	148
16							---	---	121	---	---	136
17							---	---	125	---	---	160
18							---	---	126	---	---	150
19							---	---	120	---	---	155
20							---	---	142	200	150	164
21							---	---	146	160	150	154
22							---	---	120	160	150	152
23							---	---	132	160	140	150
24							---	---	143	7150	140	654
25							2810	130	237	12000	150	1920
26							150	90	133	15900	210	3650
27							10100	130	981	16300	280	3410
28							12500	120	2530	14000	290	2220
29							13700	190	2680	4200	170	617
30							12400	160	1530	220	150	177
31							9970	170	1030	---	---	---
MONTH									403			530

15273105 RABBIT CREEK AT NEW SEWARD HIGHWAY AT ANCHORAGE--Continued

TEMPERATURE, WATER (DEG. C), MARCH TO SEPTEMBER 1984

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1				---	---	---	1.5	.5	1.0	---	---	---
2				---	---	---	1.5	.5	1.0	8.0	---	---
3				---	---	---	2.0	.0	.5	5.0	1.0	3.0
4				---	---	---	2.0	.0	1.0	6.0	.5	3.0
5				---	---	---	1.0	.0	.5	9.0	2.0	5.0
6				---	---	---	3.0	.0	1.0	7.0	1.0	3.5
7				---	---	---	4.0	.0	1.5	---	---	---
8				---	---	---	2.5	.0	1.0	---	---	---
9				---	---	---	2.5	.0	1.0	---	---	---
10				---	---	---	2.5	1.0	1.5	---	---	---
11				---	---	---	3.0	.0	1.0	9.5	2.0	5.5
12				---	---	---	4.0	.0	1.5	10.0	1.5	5.5
13				---	---	---	3.5	.5	2.0	11.0	2.5	6.5
14				---	---	---	5.5	.5	2.5	11.0	3.0	6.5
15				---	---	---	4.5	.5	2.0	10.0	3.5	6.5
16				---	---	---	3.0	.0	1.0	9.5	4.0	6.5
17				---	---	---	4.0	.0	1.5	10.5	4.0	7.0
18				.0	.0	.0	1.0	.0	.0	9.5	4.5	7.0
19				.5	.0	.0	3.0	2.0	2.5	10.5	4.5	6.5
20				1.0	.0	.0	4.0	1.0	2.5	11.0	4.0	7.0
21				1.0	.0	.0	5.5	.0	2.5	8.0	5.5	7.0
22				.5	.0	.0	---	---	---	9.5	4.0	6.0
23				.5	.0	.0	---	---	---	13.0	4.0	7.5
24				.5	.0	.0	---	---	---	10.0	4.5	7.5
25				.5	.0	.5	---	---	---	8.0	5.0	7.0
26				1.0	.0	.5	4.0	1.5	2.5	8.0	5.0	6.5
27				1.0	.0	.5	5.5	1.5	3.0	11.0	3.5	7.0
28				1.5	.0	.5	---	---	---	12.0	3.5	7.5
29				1.0	.5	.5	---	---	---	10.0	4.0	7.5
30				1.5	.0	.5	---	---	---	8.5	5.5	6.5
31				2.0	.5	1.0	---	---	---	11.0	4.0	7.0
MONTH				2.0	.0	.5	5.5	.0	1.5	13.0	.5	6.0

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1							16.5	12.0	15.5	9.5	4.5	8.0
2							14.0	10.5	12.0	10.0	4.5	7.0
3							13.5	10.5	11.5	9.5	4.5	7.0
4							16.0	10.0	12.5	10.5	5.5	7.5
5							14.0	11.5	12.5	10.0	5.0	7.5
6							14.5	10.5	12.0	10.0	5.0	7.5
7							16.0	9.0	12.0	9.0	6.5	8.0
8							14.5	10.5	12.0	10.0	6.5	8.0
9							16.0	10.5	13.0	10.5	5.5	8.0
10							14.5	9.5	12.0	10.5	5.5	7.5
11							14.5	10.0	12.0	10.0	5.0	7.5
12							15.0	9.0	11.5	10.0	5.5	7.5
13							14.5	8.5	11.0	16.5	7.0	8.0
14							14.5	8.0	11.0	9.0	6.5	7.5
15							11.5	8.5	9.5	9.0	6.5	7.5
16							15.5	9.5	12.0	10.0	5.5	7.0
17							14.0	10.0	12.0	9.0	6.0	7.5
18							11.5	10.0	10.5	8.5	7.0	7.5
19							11.0	9.5	10.0	7.5	6.5	7.0
20							11.0	9.5	10.0	7.5	5.5	6.5
21							11.0	9.0	10.0	8.0	5.0	6.0
22							12.5	9.0	10.5	6.5	3.5	5.0
23							13.0	9.5	11.0	7.0	5.5	6.5
24							16.5	9.5	10.5	8.0	6.0	6.5
25							10.5	8.5	10.0	10.5	6.0	7.0
26							9.5	7.0	8.0	10.5	5.5	7.0
27							12.5	4.5	7.0	9.5	6.0	7.5
28							14.0	4.5	7.5	8.5	5.5	6.5
29							13.0	5.0	7.5	7.0	6.0	6.5
30							11.5	4.5	7.0	7.0	6.0	6.5
31							10.0	3.5	6.5	---	---	---
MONTH							16.5	3.5	10.5	16.5	3.5	7.0

15274300 NORTH FORK CAMPBELL CREEK NEAR ANCHORAGE

LOCATION.--Lat 61°10'10", long 149°45'43", in SW¼ sec.35, T.13 N., R.3 W., Municipality of Anchorage, Hydrologic Unit 19050002, on right bank 40 ft upstream from Campbell Airstrip road, 2.5 mi upstream from confluence with South Fork, and 5.5 mi southeast of Anchorage Post Office.

DRAINAGE AREA.--13.4 mi².

PERIOD OF RECORD.--Annual maximum, water years 1967-74. June 1974 to September 1984 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 300 ft, from topographic map. May 7, 1967 to June 5, 1974, crest-stage gage at site 25 ft downstream at same datum.

REMARKS.--Records good except those for Oct. 25 to May 7, which are poor.

AVERAGE DISCHARGE.--10 years, 17.7 ft³/s, 17.94 in/yr, 12,820 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 107 ft³/s Aug. 9, 1971; maximum gage height, 12.18 ft Aug. 9, 1971 and July 12, 1980; minimum daily discharge, about 1.0 ft³/s Dec. 8, 9, 1976 and Feb. 24 to Mar. 15, 1982.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 65 ft³/s Aug. 25, gage height, 10.88 ft; minimum daily, about 3.5 ft³/s Feb. 15 to Apr. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	18	10	7.0	5.0	3.5	3.5	6.0	11	34	21	22
2	26	22	10	7.0	5.0	3.5	3.5	6.0	11	32	21	22
3	23	16	10	7.0	5.0	3.5	4.0	6.0	12	29	22	20
4	22	16	10	7.0	5.0	3.5	4.0	7.0	13	27	22	20
5	22	15	10	7.0	5.0	3.5	4.0	7.0	15	30	21	19
6	22	15	10	7.0	5.0	3.5	4.0	7.0	18	32	22	19
7	19	15	10	7.0	4.0	3.5	4.0	7.0	20	32	21	19
8	27	14	10	7.0	4.0	3.5	4.0	7.0	20	38	20	18
9	22	14	10	6.0	4.0	3.5	4.0	7.0	21	40	21	16
10	27	14	10	6.0	4.0	3.5	4.0	7.1	23	35	20	16
11	31	13	9.0	6.0	4.0	3.5	4.0	6.9	24	31	22	16
12	27	13	9.0	6.0	4.0	3.5	4.0	6.5	24	29	21	16
13	24	13	9.0	6.0	4.0	3.5	4.0	6.6	26	29	20	16
14	22	13	9.0	6.0	4.0	3.5	4.0	6.7	27	29	18	16
15	22	13	9.0	6.0	3.5	3.5	4.0	6.8	31	27	18	17
16	21	12	9.0	6.0	3.5	3.5	4.0	7.0	31	26	17	16
17	21	12	9.0	6.0	3.5	3.5	5.0	7.3	31	26	17	15
18	21	12	9.0	6.0	3.5	3.5	5.0	7.6	32	26	21	18
19	20	12	8.0	6.0	3.5	3.5	5.0	7.6	32	26	20	23
20	20	12	8.0	6.0	3.5	3.5	5.0	8.0	34	25	20	24
21	20	12	8.0	6.0	3.5	3.5	5.0	8.2	36	25	19	20
22	20	12	8.0	6.0	3.5	3.5	5.0	8.0	37	26	21	18
23	19	12	8.0	6.0	3.5	3.5	5.0	7.9	39	26	19	18
24	19	11	8.0	6.0	3.5	3.5	5.0	7.8	45	25	23	18
25	20	11	8.0	6.0	3.5	3.5	5.0	8.2	43	25	45	17
26	20	11	8.0	6.0	3.5	3.5	6.0	8.3	38	25	48	16
27	20	11	8.0	6.0	3.5	3.5	6.0	8.0	35	23	35	16
28	19	11	8.0	5.0	3.5	3.5	6.0	7.9	32	22	29	16
29	19	11	8.0	5.0	3.5	3.5	6.0	8.3	34	22	26	21
30	19	10	7.0	5.0	---	3.5	6.0	10	34	20	25	27
31	18	---	7.0	5.0	---	3.5	---	12	---	21	23	---
TOTAL	682	396	274.0	190.0	114.5	108.5	138.0	232.7	829	863	718	555
MEAN	22.0	13.2	8.84	6.13	3.95	3.50	4.60	7.51	27.6	27.8	23.2	18.5
MAX	31	22	10	7.0	5.0	3.5	6.0	12	45	40	48	27
MIN	18	10	7.0	5.0	3.5	3.5	3.5	6.0	11	20	17	15
CFSM	1.64	.99	.66	.46	.30	.26	.34	.56	2.06	2.08	1.73	1.38
IN.	1.89	1.10	.76	.53	.32	.30	.38	.65	2.30	2.40	1.99	1.54
AC-FT	1350	785	543	377	227	215	274	462	1640	1710	1420	1100

CAL YR 1983 TOTAL 5932.6 MEAN 16.3 MAX 53 MIN 3.8 CFSM 1.22 IN 16.47 AC-FT 11770
WTR YR 1984 TOTAL 5100.7 MEAN 13.9 MAX 48 MIN 3.5 CFSM 1.04 IN 14.16 AC-FT 10120

NOTE.--No gage-height record Jan. 19 to May 7.

15274600 CAMPBELL CREEK NEAR SPENARD

LOCATION.--Lat 61°08'17", long 149°55'20", on line between sec.11 and 14, T.12 N., R.4 W., Municipality of Anchorage, Hydrologic Unit 19050002, on upstream right wingwall of bridge at Dimond Boulevard crossing, 2.0 mi upstream from mouth, and 4.3 mi south of Spenard.

DRAINAGE AREA.--69.7 mi².

RERIOD OF RECORD.--June 1966 to current year.

GAGE.--Water-stage recorder. Datum of gage is 18.04 ft National Geodetic Vertical Datum of 1929.

REMARKS.--Records poor for period of no gage-height record prior to May [illegible], good thereafter.

AVERAGE DISCHARGE.--18 years, 65.5 ft³/s, 12.76 in/yr, 47,450 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 451 ft³/s Aug. 13, 1981, gage height, 3.54 ft; maximum gage height recorded, 5.29 ft Apr. 20, 1976, backwater from ice; minimum daily discharge, 2.2 ft³/s Feb. 5, 1969.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 308 ft³/s Aug. 25, gage height, 2.74 ft; minimum daily, about 19 ft³/s Feb. 20 to Mar. 4 and Mar. 8-14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	190	95	50	30	23	19	24	40	84	129	72	82
2	170	95	50	28	23	19	24	44	87	124	71	78
3	150	95	50	28	23	19	24	47	93	113	70	75
4	140	90	50	28	23	19	25	49	99	107	71	73
5	140	85	50	28	23	22	25	52	100	111	68	71
6	140	85	45	28	23	26	26	54	106	118	69	70
7	120	80	45	28	23	22	26	56	115	119	69	68
8	170	80	45	26	22	19	26	58	113	140	67	66
9	140	75	45	26	21	19	26	61	109	159	72	65
10	180	75	45	25	21	19	26	64	112	139	69	64
11	200	70	40	25	21	19	27	65	111	124	73	63
12	160	70	40	25	20	19	27	63	114	112	68	64
13	140	70	40	25	20	19	27	63	123	110	64	64
14	130	70	40	25	20	19	27	63	126	108	63	64
15	130	70	40	25	20	20	28	66	147	100	63	70
16	120	70	36	25	20	20	28	68	150	94	63	65
17	120	65	36	25	20	20	28	72	146	93	63	64
18	120	65	36	25	20	20	28	82	139	92	79	73
19	110	60	36	25	20	20	28	83	138	90	83	120
20	110	60	36	25	19	20	28	79	143	88	80	125
21	105	60	35	25	19	20	29	83	148	86	70	97
22	100	55	35	25	19	20	29	84	149	87	78	85
23	100	55	35	25	19	21	30	76	154	87	74	82
24	100	55	35	25	19	21	31	78	166	84	78	80
25	100	55	35	23	19	22	31	83	167	83	209	88
26	100	55	35	23	19	22	31	85	155	86	236	81
27	100	50	35	23	19	22	33	78	144	82	155	74
28	100	50	30	23	19	22	35	72	133	76	122	73
29	95	50	30	23	19	22	40	72	132	74	104	118
30	95	50	30	23	---	23	40	94	135	72	94	167
31	95	---	30	23	---	24	---	97	---	70	86	---
TOTAL	3970	2060	1220	786	596	638	857	2131	3838	3157	2703	2429
MEAN	128	68.7	39.4	25.4	20.6	20.6	28.6	68.7	128	102	87.2	81.0
MAX	200	95	50	30	23	26	40	97	167	159	236	167
MIN	95	50	30	23	19	19	24	40	84	70	63	63
CFSM	1.84	.99	.57	.36	.30	.30	.41	.99	1.84	1.46	1.25	1.16
IN.	2.12	1.10	.65	.42	.32	.34	.46	1.14	2.05	1.68	1.44	1.30
AC-FT	7870	4090	2420	1560	1180	1270	1700	4230	7610	6260	5360	4820

CAL YR 1983 TOTAL 26311 MEAN 72.1 MAX 200 MIN 17 CFSM 1.03 IN 14.04 AC-FT 52190
WTR YR 1984 TOTAL 24385 MEAN 66.6 MAX 236 MIN 19 CFSM .96 IN 13.01 AC-FT 48370

15274798 SOUTH BRANCH OF SOUTH FORK CHESTER CREEK NEAR EAST 20TH AVENUE AT ANCHORAGE

LOCATION.--Lat 61°12'21", long 149°42'55", in SW¼NW¼ sec.19, T.13 N., R.2 W., Municipality of Anchorage, hydrologic Unit 19050002, Fort Richardson Military Reservation, on left bank 150 ft downstream of East 20th Avenue, extended. and 6.1 mi east of Anchorage Post Office.

DRAINAGE AREA.--9.39 mi².

PERIOD OF RECORD.--October 1980 to September 1984 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 280 ft, from topographic map.

REMARKS.--Records poor for period of no gage-height record prior to May 7, good thereafter.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 24 ft³/s Sept. 20, 1982, gage height, 4.98 ft; maximum gage height, 5.11 ft Aug. 16, 1981; minimum daily discharge, about 2.5 ft³/s Feb. 19 to Mar. 8, 1984.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 15 ft³/s Aug. 26 and Sept. 20, gage height, 4.67 ft; minimum daily, about 2.5 ft³/s Feb. 19 to Mar. 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.5	6.5	5.5	4.7	4.0	2.5	4.0	5.5	8.7	8.5	7.1	6.8
2	6.5	6.5	5.5	4.7	4.0	2.5	4.0	5.5	8.1	9.0	6.9	6.6
3	6.5	6.5	5.5	4.7	3.5	2.5	4.0	5.5	8.0	8.9	6.9	6.5
4	6.5	6.5	5.5	4.7	3.5	2.5	4.0	6.0	8.0	8.4	6.8	6.4
5	6.5	6.5	5.5	4.7	3.5	2.5	4.0	6.0	7.9	8.0	6.6	6.4
6	6.5	6.5	5.5	4.5	3.5	2.5	4.5	7.0	8.7	7.9	6.7	6.4
7	6.0	6.5	5.5	4.5	3.5	2.5	4.5	8.0	8.4	7.8	6.7	6.3
8	6.0	6.5	5.5	4.5	3.5	2.5	4.5	8.0	8.5	9.3	6.5	6.3
9	7.0	6.5	5.5	4.5	3.5	3.0	4.5	8.2	8.4	10	7.0	6.3
10	9.5	6.5	5.5	4.5	3.5	3.0	4.5	7.8	8.1	11	6.7	6.2
11	8.0	6.5	5.0	4.5	3.0	3.0	4.5	7.2	8.0	9.1	7.0	6.2
12	7.5	6.5	5.0	4.5	3.0	3.0	4.5	6.6	7.9	8.8	6.5	6.1
13	7.0	6.5	5.0	4.5	3.0	3.0	4.5	6.4	7.9	8.3	6.2	6.1
14	7.0	6.0	5.0	4.5	3.0	3.0	4.5	6.5	8.0	8.1	6.0	6.3
15	7.0	6.0	5.0	4.5	3.0	3.0	4.5	6.6	9.6	8.0	5.9	6.5
16	7.0	6.0	5.0	4.5	3.0	3.0	4.5	6.5	10	7.7	5.7	6.3
17	7.0	6.0	5.0	4.5	3.0	3.0	4.5	6.5	10	7.6	5.6	6.2
18	7.0	6.0	5.0	4.5	3.0	3.5	5.0	6.7	9.4	7.6	6.2	7.8
19	7.0	6.0	5.0	4.5	2.5	3.5	5.0	7.0	9.0	7.6	6.5	13
20	7.0	6.0	5.0	4.5	2.5	3.5	5.0	6.9	8.7	7.6	6.6	13
21	7.0	6.0	5.0	4.0	2.5	3.5	5.0	7.0	8.6	7.5	6.2	10
22	7.0	6.0	5.0	4.0	2.5	3.5	5.0	6.9	8.7	7.3	6.8	8.3
23	7.0	6.0	5.0	4.0	2.5	3.5	5.0	7.0	8.7	7.2	6.7	7.8
24	7.0	5.5	5.0	4.0	2.5	3.5	5.0	6.8	8.6	7.1	6.7	7.6
25	7.0	5.5	5.0	4.0	2.5	3.5	5.0	6.9	8.7	7.3	11	7.9
26	6.5	5.5	4.7	4.0	2.5	3.5	5.0	7.1	8.7	7.8	12	7.6
27	6.5	5.5	4.7	4.0	2.5	4.0	5.0	7.0	8.8	7.5	7.8	7.3
28	6.5	5.5	4.7	4.0	2.5	4.0	5.5	6.8	8.7	7.2	7.2	7.2
29	6.5	5.5	4.7	4.0	2.5	4.0	5.5	7.0	8.6	7.2	7.0	9.0
30	6.5	5.5	4.7	4.0	---	4.0	5.5	10	8.4	7.1	6.9	11
31	6.5	---	4.7	4.0	---	4.0	---	10	---	6.9	6.8	---
TOTAL	213.0	183.0	158.2	135.0	87.5	98.5	140.5	216.9	257.8	249.3	215.2	225.4
MEAN	6.87	6.10	5.10	4.35	3.02	3.18	4.68	7.00	8.59	8.04	6.94	7.51
MAX	9.5	6.5	5.5	4.7	4.0	4.0	5.5	10	10	11	12	13
MIN	6.0	5.5	4.7	4.0	2.5	2.5	4.0	5.5	7.9	6.9	5.6	6.1
CFSM	.73	.65	.54	.46	.32	.34	.50	.75	.92	.86	.74	.80
IN.	.84	.72	.63	.53	.35	.39	.56	.86	1.02	.99	.85	.89
AC-FT	422	363	314	268	174	195	279	430	511	494	427	447

CAL YR 1983 TOTAL 2177.3 MEAN 5.97 MAX 9.5 MIN 4.0 CFSM .64 IN 8.62 AC-FT 4320
WTR YR 1984 TOTAL 2180.3 MEAN 5.96 MAX 13 MIN 2.5 CFSM .64 IN 8.64 AC-FT 4320

15275100 CHESTER CREEK AT ARCTIC BOULEVARD AT ANCHORAGE

LOCATION.--Lat 61°12'19", long 149°53'43", on line between sec.19, R.3 W., and sec.24, R.4 W., T.13 N., Municipality of Anchorage, Hydrologic Unit 19050002, on upstream right bank wingwall of bridge on Arctic Boulevard at Anchorage.

DRAINAGE AREA.--27.2 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1966 to current year.

REVISED RECORDS.--WRD Alaska 1972: Drainage area. WDR AK-82-1: 1979(M), 1981(M).

GAGE.--Water-stage recorder and culvert control. Datum of gage is 16.02 ft (4.883 m) National Geodetic Vertical Datum of 1929 (from USC&GS, datum of 1968).

REMARKS.--Records good except those below 30 ft^3/s, which are fair, and those for winter period, Nov. 13 to Mar. 15 which are poor.

AVERAGE DISCHARGE.--18 years, 18.2 ft^3/s, 9.09 in/yr, 13,190 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 175 ft^3/s, corrected, Sept. 11, 1975, gage height, 4.37 ft; minimum daily, about 1.6 ft^3/s Feb. 12-14, 1975.

EXTREMES FOR CURRENT YEAR.--Maximum discharge recorded, 140 ft^3/s Aug. 25, gage height, 5.11 ft; minimum daily, about 9.0 ft^3/s Jan. 21-28 and Feb. 5-15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	18	13	10	10	11	20	33	28	22	18	18
2	17	17	13	11	10	11	25	34	24	22	17	17
3	16	17	13	11	10	13	23	33	22	18	16	17
4	15	17	13	11	10	15	21	32	21	18	16	17
5	16	17	12	10	9.0	18	27	31	20	17	16	16
6	18	17	12	10	9.0	22	23	30	21	17	16	16
7	16	17	12	10	9.0	17	20	29	21	16	16	16
8	15	17	12	10	9.0	15	19	29	21	38	16	16
9	18	17	12	10	9.0	14	17	29	24	36	29	15
10	52	17	12	10	9.0	14	17	28	24	34	23	15
11	45	16	12	11	9.0	14	17	26	20	26	21	15
12	31	15	12	11	9.0	14	17	24	20	21	18	15
13	26	14	12	11	9.0	14	17	24	19	28	17	14
14	23	14	11	12	9.0	14	20	23	19	23	16	14
15	22	14	11	12	9.0	14	24	23	43	19	16	14
16	21	14	11	11	10	14	29	22	43	18	16	14
17	20	14	11	10	10	14	26	21	31	18	15	14
18	19	13	11	10	10	14	21	22	26	18	36	26
19	19	13	11	10	10	14	18	22	23	18	35	46
20	19	13	11	10	10	14	18	25	21	18	32	53
21	19	13	10	9.0	10	14	22	22	21	18	25	30
22	19	13	10	9.0	10	14	36	22	21	17	31	23
23	18	13	10	9.0	10	14	26	21	20	17	29	20
24	18	13	10	9.0	10	14	23	21	19	17	42	20
25	18	13	11	9.0	10	13	23	21	19	18	71	30
26	18	13	11	9.0	10	14	25	29	19	21	52	20
27	18	13	11	9.0	10	16	30	21	18	18	37	18
28	17	13	10	9.0	10	16	41	19	18	17	25	18
29	17	13	10	10	10	17	43	19	17	17	21	48
30	18	13	10	10	---	17	34	41	17	17	19	35
31	18	---	10	10	---	17	---	43	---	17	18	---
TOTAL	644	441	350	313.0	279.0	456	722	819	680	639	775	650
MEAN	20.8	14.7	11.3	10.1	9.62	14.7	24.1	26.4	22.7	20.6	25.0	21.7
MAX	52	18	13	12	10	22	43	43	43	38	71	53
MIN	15	13	10	9.0	9.0	11	17	19	17	16	15	14
CFSM	.77	.54	.42	.37	.35	.54	.89	.97	.84	.76	.92	.80
IN.	.88	.60	.48	.43	.38	.62	.99	1.12	.93	.87	1.06	.89
AC-FT	1280	875	694	621	553	904	1430	1620	1350	1270	1540	1290

CAL YR 1983 TOTAL 6719.0 MEAN 18.4 MAX 52 MIN 10 CFSM .68 IN 9.19 AC-FT 13330
WTR YR 1984 TOTAL 6768.0 MEAN 18.5 MAX 71 MIN 9.0 CFSM .68 IN 9.26 AC-FT 13420

NOTE.--No gage-height record Dec. 3 to Mar. 15.

15275100 CHESTER CREEK AT ARCTIC BOULEVARD AT ANCHORAGE--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1967-73, 1975-77, and 1980 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1981 to current year.
WATER TEMPERATURE: October 1981 to current year.

INSTRUMENTATION.--Water-quality monitor and recorder since October 1981.

REMARKS.--Period of no record due to equipment malfunction. Recorded values for temperature and specific conductance were found to be within 0.5°C and 5% respectively of mean stream values based on one cross-sectional measurement, with no variation observed within the cross section. Several other field observations were made during the water year. Specific conductance values for March 1-18 are poor.

EXTREMES FOR PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: Maximum recorded, 1,380 micromhos/cm at 25°C Mar. 17, 1982; minimum recorded, 48 micromhos/cm at 25°C Aug. 14, 1983.
WATER TEMPERATURE: Maximum recorded, 18.5°C July 22, 1983 and July 7, 1984; minimum recorded, 0.0°C on many days during winter months.

EXTERMES FOR CURRENT YEAR.--
SPECIFIC CONDUCTANCE: Maximum recorded, 1,310 micromhos/cm at 25°C Mar. 6; minimum recorded, 60 micromhos/cm at 25°C Aug. 25.
WATER TEMPERATURE: Maximum recorded, 18.5°C July 7; minimum recorded, 0.0°C many days during winter months.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM WIDTH (FT) (00004)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK) (00009)	STREAM- FLOW, INSTAN- TANEOUS (CFS) (00061)	SPE- CIFIC CON- DUCT- ANCE (UMHOS) (00095)	PH LAB (STAND- ARD UNITS) (00403)	TEMPER- ATURE (DEG C) (00010)	HARD- NESS (MG/L AS CACO3) (00900)	HARD- NESS, NONCAR- BONATE (MG/L CACO3) (00902)
MAR									
06...	0900	--	--	10	--	7.7	.5	130	40
06...	1200	--	--	11	--	7.9	1.0	120	24
06...	1600	--	--	16	--	7.6	2.0	120	46
06...	1830	--	--	15	--	7.5	1.0	120	37
07...	0845	--	--	11	510	7.4	1.5	120	28
07...	1200	--	--	13	780	7.6	1.5	130	50
07...	1700	--	--	20	970	7.2	1.5	120	47
08...	0730	--	--	14	640	7.9	1.0	110	31
08...	1500	--	--	16	830	7.7	1.5	120	51
09...	0800	--	--	13	460	--	1.5	--	--
09...	1540	--	--	22	755	7.6	1.5	110	38
10...	1910	--	--	25	580	--	1.0	--	--
11...	1030	--	--	15	430	--	2.0	--	--
11...	1600	--	--	41	510	--	1.5	--	--
12...	1200	--	--	16	430	--	2.0	--	--
13...	1435	--	--	18	550	--	2.5	--	--
13...	1445	--	--	--	--	--	--	--	--
14...	1245	--	--	17	440	--	2.5	--	--
JUL									
16...	1115	11.0	--	18	--	--	--	--	--
16...	1116	--	1.00	--	260	--	13.0	--	--
16...	1117	--	5.50	--	260	--	13.0	--	--
16...	1118	--	10.0	--	260	--	13.0	--	--

DATE	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	ALKA- LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)
MAR									
06...	40	8.3	27	1.6	94	24	47	<.10	12
06...	34	8.0	21	1.6	94	23	39	<.10	12
06...	39	6.6	140	3.7	79	21	250	<.10	8.8
06...	36	7.0	100	2.6	82	21	190	<.10	9.7
07...	35	7.8	45	1.7	92	23	83	<.10	11
07...	40	7.6	88	2.5	81	22	170	<.10	11
07...	39	6.1	130	2.9	76	20	230	<.10	8.2
08...	34	6.7	72	2.3	82	20	130	.10	9.6
08...	38	6.8	89	2.7	72	22	170	<.10	9.7
09...	--	--	--	--	--	--	--	--	--
09...	34	5.8	87	2.8	71	20	160	<.10	8.1
10...	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--
11...	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--

15275100 CHESTER CREEK AT ARCTIC BOULEVARD AT ANCHORAGE--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
MAR									
06...	236	220	400	<10	1900	8	80	18	.49
06...	200	190	500	<10	2100	7	100	21	.60
06...	530	520	19000	<10	61000	260	800	683	29
05...	425	420	11000	<10	25000	210	420	340	13
07...	277	260	900	<10	3200	15	110	33	.98
07...	408	390	6700	<10	12000	120	280	194	6.8
07...	491	480	19000	10	36000	400	570	570	30
08...	342	320	3900	<10	9000	80	190	105	3.8
08...	402	380	6900	<10	13000	120	350	207	8.7
09...	--	--	1000	<10	2800	17	120	32	1.1
09...	395	360	12000	<10	27000	260	410	413	25
10...	--	--	9200	<10	22000	110	320	290	20
11...	--	--	1200	<10	3100	15	110	38	1.5
11...	--	--	12000	<10	24000	220	380	426	47
12...	--	--	2200	<10	4900	57	200	74	3.1
13...	--	--	4600	<10	9300	110	190	--	--
13...	--	--	--	--	--	--	--	140	--
14...	--	--	--	--	--	--	--	150	6.7

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	405	205	320	300	---	---	488	368	412	272	360	240
2	286	266	400	280	---	---	468	368	393	233	392	252
3	286	266	380	300	480	300	448	388	274	234	504	284
4	287	267	320	300	421	301	448	328	255	215	576	316
5	407	227	440	300	321	301	469	369	276	236	828	348
6	288	208	320	300	461	301	429	349	317	237	1310	410
7	288	268	320	300	321	301	429	329	258	218	1220	480
8	448	268	460	300	442	322	429	369	319	219	1020	580
9	869	269	460	300	322	302	470	370	340	220	815	440
10	429	89	460	300	322	302	470	370	361	281	660	300
11	230	110	440	300	542	302	430	330	342	262	500	290
12	250	210	400	300	443	303	449	309	343	243	550	430
13	271	211	420	300	363	303	467	367	364	264	580	440
14	271	251	---	---	383	323	646	346	345	225	440	340
15	272	272	---	---	503	323	604	404	365	225	420	380
16	272	272	---	---	504	304	463	383	346	226	---	---
17	293	273	---	---	364	304	441	361	447	227	460	420
18	293	273	---	---	424	304	440	300	368	228	460	400
19	414	274	---	---	484	324	413	293	469	269	---	---
20	294	274	---	---	425	305	345	285	370	270	---	---
21	434	274	---	---	405	285	378	298	351	271	---	---
22	435	275	---	---	385	265	390	290	492	252	---	---
23	455	275	---	---	325	285	423	323	493	293	437	397
24	356	276	---	---	326	326	375	255	454	254	454	394
25	456	296	---	---	446	326	368	268	355	275	451	391
26	457	297	---	---	426	346	380	260	536	256	448	388
27	437	277	---	---	546	326	353	233	437	257	445	385
28	698	278	---	---	447	347	325	245	338	238	462	442
29	458	298	---	---	447	327	298	238	299	239	479	399
30	779	299	---	---	507	307	390	250	---	---	476	396
31	439	299	---	---	507	367	391	231	---	---	493	473
MONTH	869	89			546	265	646	231	536	215	1310	240

15275100 CHESTER CREEK AT ARCTIC BOULEVARD AT ANCHORAGE--Continued

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	510	470	296	256	300	260	280	220	291	211	260	220
2	527	467	295	255	300	280	260	220	270	220	260	220
3	504	464	294	254	300	280	280	220	260	220	260	220
4	501	461	293	253	300	280	280	260	280	260	280	220
5	499	319	292	252	300	280	280	260	260	220	322	282
6	456	336	291	251	300	220	280	260	280	220	343	303
7	473	433	290	250	280	260	280	260	280	220	305	265
8	470	470	289	249	280	280	280	100	280	220	287	227
9	467	467	300	248	300	220	240	160	280	200	288	228
10	484	444	---	---	280	200	260	200	260	200	270	230
11	481	441	---	---	300	280	260	200	260	200	272	232
12	478	438	---	---	300	280	260	220	260	220	273	233
13	475	435	---	---	300	280	260	200	260	220	275	235
14	472	432	---	---	300	280	260	200	260	220	297	237
15	449	429	---	---	300	100	260	220	280	220	278	238
16	466	426	---	---	260	180	280	220	280	220	280	240
17	463	423	---	---	260	200	279	259	280	220	282	242
18	---	---	---	---	280	260	279	259	280	100	283	123
19	---	---	320	300	280	260	278	258	240	120	---	---
20	488	388	320	300	280	260	298	258	240	180	---	---
21	487	447	320	300	280	260	297	277	260	220	---	---
22	866	346	320	300	280	260	296	276	260	120	---	---
23	485	345	320	300	280	260	316	276	260	200	---	---
24	484	444	320	300	280	260	315	275	260	100	---	---
25	443	363	320	280	280	260	295	275	200	60	---	---
26	382	342	300	220	280	260	334	274	220	160	---	---
27	341	321	300	280	280	260	354	294	240	200	---	---
28	320	260	320	300	280	260	353	293	240	200	---	---
29	298	258	320	300	280	260	332	292	260	200	---	---
30	297	257	300	180	280	260	332	292	260	220	---	---
31	---	---	280	160	---	---	331	271	260	220	---	---
MONTH	866	257	320	160	300	100	354	100	291	60	343	123
YEAR	1310	60										

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	7.0	5.5	2.5	.5	---	---	.0	.0	.0	.0	.5	.0
2	7.5	6.0	3.0	2.0	---	.0	.0	.0	.0	.0	.5	.0
3	7.0	4.5	2.0	1.0	.0	.0	.0	.0	.0	.0	1.0	.0
4	6.0	3.0	2.0	.0	1.0	.0	.0	.0	.0	.0	1.5	.5
5	7.0	4.0	1.5	.0	1.5	1.0	.0	.0	.0	.0	1.5	.5
6	6.5	4.0	.0	.0	1.5	.0	.0	.0	.0	.0	2.0	.5
7	5.0	2.5	1.0	.0	.0	.0	.0	.0	.0	.0	2.0	.5
8	4.5	1.5	1.5	.5	.0	.0	.0	.0	.0	.0	1.5	.5
9	4.0	2.0	1.5	.5	.0	.0	.0	.0	.0	.0	2.0	.5
10	3.5	2.0	1.5	1.0	.0	.0	.0	.0	.0	.0	2.0	1.0
11	5.0	3.5	1.5	1.0	.0	.0	.0	.0	.0	.0	2.5	.5
12	5.5	4.0	2.5	1.0	.0	.0	.0	.0	.0	.0	3.0	.5
13	5.5	3.0	1.0	.0	.0	.0	.5	.0	.0	.0	2.5	.0
14	4.5	2.5	---	---	.0	.0	.5	.0	.0	.0	3.5	1.0
15	5.0	3.0	---	---	.0	.0	1.0	.5	.0	.0	3.0	.5
16	4.5	2.5	---	---	.0	.0	1.0	.5	.0	.0	---	---
17	4.0	3.0	---	---	.0	.0	1.0	.0	.0	.0	3.0	.5
18	5.0	3.0	---	---	.0	.0	1.0	.5	.0	.0	2.5	.0
19	4.5	2.5	---	---	.0	.0	1.0	.0	.0	.0	---	.0
20	4.0	3.5	---	---	.0	.0	.0	.0	.0	.0	---	---
21	4.5	3.0	---	---	.0	.0	.0	.0	.0	.0	---	---
22	4.0	2.5	---	---	.0	.0	.0	.0	.0	.0	3.0	---
23	3.5	2.0	---	---	.0	.0	.0	.0	.0	.0	3.0	.0
24	3.5	1.5	---	---	.0	.0	.0	.0	.0	.0	2.5	.0
25	2.5	1.0	---	---	.0	.0	.0	.0	.0	.0	4.0	1.0
26	2.5	1.0	---	---	.0	.0	.0	.0	.5	.0	3.5	1.5
27	3.0	1.5	---	---	.0	.0	.0	.0	.5	.0	3.5	1.5
28	3.0	2.0	---	---	.0	.0	.0	.0	.5	.0	4.5	.5
29	3.5	2.5	---	---	.0	.0	.0	.0	.0	.0	3.5	1.5
30	3.5	2.0	---	---	.0	.0	.0	.0	---	---	4.5	1.5
31	2.0	.5	---	---	.0	.0	.0	.0	---	---	4.5	1.5
MONTH	7.5	.5			1.5	.0	1.0	.0	.5	.0	4.5	.0

15275100 CHESTER CREEK AT ARCTIC BOULEVARD AT ANCHORAGE--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	4.5	1.5	6.0	3.0	15.0	8.0	13.5	12.0	16.0	13.0	11.0	8.5
2	4.0	1.5	8.0	3.0	15.5	9.0	14.5	11.0	14.5	14.0	11.5	8.0
3	4.5	.5	6.5	3.0	15.0	9.0	15.0	11.5	14.5	12.5	11.0	8.0
4	4.5	.5	7.0	3.5	16.5	10.0	17.5	11.5	16.0	13.0	12.0	8.5
5	2.5	1.5	9.0	4.0	16.0	10.5	17.0	12.5	15.0	13.5	12.0	7.5
6	5.0	1.0	7.5	3.5	12.5	11.0	17.5	13.0	15.0	13.0	12.0	8.0
7	5.0	2.0	9.5	3.5	14.5	10.0	18.5	13.0	15.5	12.5	11.0	9.0
8	4.0	1.5	10.0	4.0	15.0	10.5	15.5	13.5	15.0	13.0	12.0	8.5
9	4.5	1.5	10.0	4.5	16.5	10.5	15.5	13.5	16.0	13.5	12.0	8.0
10	4.5	1.0	---	---	16.0	10.5	15.5	13.0	15.0	13.0	12.0	8.0
11	4.5	1.0	---	---	15.0	10.5	16.0	12.5	16.5	13.5	11.5	8.0
12	5.0	.5	---	---	16.5	11.5	16.0	11.5	16.0	12.5	11.0	8.0
13	5.0	1.5	---	---	13.5	11.5	15.5	12.0	15.5	12.0	10.5	9.5
14	6.0	1.5	---	---	14.5	9.5	14.0	11.5	15.5	11.5	10.5	9.0
15	4.5	2.0	---	---	12.5	11.0	16.5	10.5	16.0	11.5	10.5	9.0
16	3.5	.5	---	---	12.5	10.5	14.5	12.5	15.5	12.5	11.0	7.5
17	4.5	1.5	---	---	14.0	10.0	13.0	12.0	14.5	13.0	10.5	8.0
18	6.0	1.0	13.0	---	15.0	10.0	13.5	11.5	14.5	12.5	11.0	9.0
19	5.5	.5	12.5	8.5	15.5	10.0	13.0	11.5	14.0	12.5	10.0	8.5
20	5.5	2.5	11.5	7.5	16.0	10.5	13.0	11.5	12.5	12.0	9.0	8.0
21	6.5	1.5	10.5	8.5	16.0	10.5	16.5	11.5	13.0	11.5	9.5	7.0
22	5.0	1.0	11.5	8.0	17.5	10.5	17.5	12.5	13.0	11.5	9.0	6.5
23	6.0	1.0	14.5	7.0	16.0	11.5	17.0	13.0	14.0	11.5	8.5	7.5
24	7.0	2.0	13.5	8.0	16.5	12.0	17.0	13.0	13.5	11.5	9.0	7.5
25	7.5	1.5	11.5	8.5	15.0	11.5	14.5	12.5	13.0	11.5	9.0	8.0
26	5.0	2.5	12.0	8.0	13.0	11.5	15.5	13.0	12.0	10.5	9.0	6.5
27	6.5	3.0	12.5	7.0	12.5	11.0	16.5	12.5	11.5	9.0	9.5	7.5
28	7.0	3.5	14.5	7.0	15.5	8.0	16.5	13.0	11.0	8.5	8.5	7.5
29	4.5	3.0	13.0	8.0	16.5	11.5	17.0	13.0	11.0	8.5	9.0	8.0
30	4.5	3.0	11.0	9.5	15.5	11.5	18.0	12.0	11.0	8.5	8.5	7.5
31	---	---	13.0	8.5	---	---	17.5	13.0	10.5	8.0	---	---
MONTH	7.5	.5	14.5	3.0	17.5	8.0	18.5	10.5	16.5	8.0	12.0	6.5
YEAR	18.5	.0										

BEST COPY AVAILABLE

15276000 SHIP CREEK NEAR ANCHORAGE

LOCATION.--Lat 61°13'25", long 149°37'55", in NE¼ sec.16, T.13 N., R.2 W., Municipality of Anchorage, Hydrologic Unit 19050002, in Fort Richardson Military Reservation, at diversion dam and Fort Richardson water-supply intake building, 3.5 mi upstream from North Fork Ship Creek, and 8.5 mi east of Anchorage.

DRAINAGE AREA.--90.5 mi^2.

PERIOD OF RECORD.--October 1946 to current year.

REVISED RECORDS.--WSP 1936: Drainage area.

GAGE.--Water-stage recorder and masonry dam. Prior to May 10, 1976, spillway elevation was about 4 ft lower. Level of dam adjusted periodically for cleaning of reservoir. Datum of gage is 530 ft National Geodetic Vertical Datum of 1929 (levels by Corps of Engineers). See WSP 1936 for history of changes prior to Oct. 1, 1954.

REMARKS.--Records fair except those for Nov. 14 to Feb. 12, which are poor. Discharge data represent the net flow remaining after diversion for water supply to Fort Richardson, Elmendorf Air Force Base, and Municipality of Anchorage. Average diversion for water year 1984 was 20.4 ft^3/s. Diversion began in 1944. Magnitude of discharges downstream of dam may be affected by periodic spillway adjustment.

COOPERATION.--Gage inspected and records of diversion furnished by Office of Post Engineers, Fort Richardson.

AVERAGE DISCHARGE.--38 years, 162 ft^3/s, 24.31 in/yr, 117,400 acre-ft/yr, adjusted to include diversion.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,860 ft^3/s June 21, 1949, gage height, 3.44 ft, site and datum then in use; no flow at times.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 572 ft^3/s June 23, gage height, 3.63 ft (gage height affected by spillway adjustment); minimum daily, about 14 ft^3/s Feb. 9-12

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	257	132	51	19	18	19	23	50	196	346	140	152
2	245	131	48	19	18	19	22	54	228	312	136	141
3	217	126	46	19	18	19	22	52	269	288	131	136
4	199	122	45	19	18	19	21	51	309	277	139	127
5	194	120	45	19	18	20	23	57	330	316	143	125
6	207	117	45	19	17	21	22	57	333	354	144	102
7	177	110	45	19	16	22	22	59	342	362	143	97
8	166	110	40	19	15	23	22	68	342	369	133	94
9	175	110	40	19	14	26	23	73	351	341	137	96
10	301	107	38	19	14	31	27	83	369	304	132	92
11	410	108	36	19	14	32	26	93	361	269	144	88
12	346	104	34	19	14	32	26	93	373	248	129	90
13	306	90	32	19	15	27	25	96	391	239	120	91
14	276	88	30	19	18	27	27	104	384	225	116	96
15	257	86	30	19	18	26	29	118	391	206	114	118
16	241	84	28	19	18	25	28	128	372	198	114	106
17	230	84	26	18	23	25	28	141	358	194	126	97
18	220	84	26	18	22	24	30	161	374	188	123	102
19	207	84	24	18	21	24	32	177	397	175	132	144
20	201	90	23	18	18	24	30	180	446	169	130	155
21	196	100	22	18	18	23	33	185	488	167	123	137
22	179	80	22	18	19	22	34	182	531	176	130	132
23	168	65	22	18	17	23	35	183	543	177	132	125
24	161	60	22	18	16	23	32	195	512	177	147	121
25	146	54	21	18	19	24	32	194	498	177	360	122
26	151	50	19	18	20	22	31	188	449	172	385	121
27	151	50	19	18	20	22	34	177	408	161	290	114
28	151	50	19	18	18	23	47	174	366	155	233	111
29	144	50	19	18	18	22	52	184	376	152	200	186
30	137	51	19	18	---	23	45	203	374	146	180	269
31	134	---	19	18	---	22	---	195	---	143	164	---
TOTAL	6550	2697	955	574	512	734	883	3955	11461	7183	4970	3687
MEAN	211	89.9	30.8	18.5	17.7	23.7	29.4	128	382	232	160	123
MAX	410	132	51	19	23	32	52	203	543	369	385	269
MIN	134	50	19	18	14	19	21	50	196	143	114	88
AC-FT	12990	5350	1890	1140	1020	1460	1750	7840	22730	14250	9860	7310

CAL YR 1983 TOTAL 53701.0 MEAN 147 MAX 731 MIN 5.0 AC-FT 106500
WTR YR 1984 TOTAL 44161.0 MEAN 121 MAX 543 MIN 14 AC-FT 87590

ADJUSTED TO INCLUDE DIVERSION

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	232	111	52.4	40.7	40.1	42.4	46.0	144	401	253	183	146
CFSM	2.56	1.23	0.58	0.45	0.44	0.47	0.51	1.59	4.43	2.80	2.02	1.61
IN.	2.95	1.37	0.67	0.52	0.48	0.54	0.57	1.84	4.94	3.22	2.33	1.80
AC-FT	14,250	6,620	3,220	2,500	2,310	2,610	2,740	8,870	23,840	15,550	11,230	8,670

CAL YR 1983 MEAN 167 CFSM 1.85 IN 25.00 AC-FT 120,680
WTR YR 1984 MEAN 141 CFSM 1.56 IN 21.22 AC-FT 102,410

15278000 EKLUTNA LAKE NEAR PALMER

LOCATION.--Lat 61°24'39", long 149°07'20", in NE¼NE¼ sec.18, T.15 N., R.2 E., Municipality of Anchorage, Hydrologic Unit 19050002, on right shore, 0.7 mi upstream from lake outlet, 12 mi upstream from mouth of Eklutna Creek, and 14 mi south of Palmer.

DRAINAGE AREA.--119 mi^2.

PERIOD OF RECORD.--November 1946 to September 1962 (fragmentary after January 1955), June 1983 to current year. Fragmentary records for the period October 1962 to June 1983 available from Eklutna Hydroelectric Project.

GAGE.--Water-stage recorder. Datum of gage is at National Geodetic Vertical Datum of 1929 (levels by Alaska Power Administration). Prior to June 1983, nonrecording gage at lake outlet at datum of 859.8 ft NGVD.

REMARKS.--Lake outlet consists of earth and rockfill dam with uncontrolled spillway crest at an elevation of 871 ft Prior to 1965, control structure 1400 ft upstream with spillway crest at elevation of 867.5 ft which could be flash-boarded to elevation of 871 ft. Outflow was controlled by the flash boards and sluice gates. Storage begins at elevation of 859 ft. Reservoir is used for power generation. Satellite telemeter at station.

COOPERATION.--Intermittent gage height readings furnished by Alaska Power Administration.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation observed, 871.8 ft Sept. 18, 1951; minimum observed, 814.2 ft June 1, 1962.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 863.0 ft Oct. 29 to Nov. 16; minimum observed 822.7 ft June 8, but may have been less during period of no gage height record, May 31 to June 21.

ELEVATION (NGVD), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	860.80	863.00	862.30	---	852.80	845.60	836.70	828.30	---	826.90	841.50	858.20
2	860.90	863.00	862.30	---	852.60	845.40	836.40	828.20	---	827.10	842.00	858.40
3	861.10	863.00	862.30	859.08	852.20	845.10	836.00	828.00	---	827.30	842.50	858.50
4	861.10	863.00	862.30	858.90	852.00	844.80	835.70	827.90	---	827.50	843.10	858.70
5	861.20	863.00	862.20	858.80	851.80	844.60	835.40	827.70	---	827.90	843.80	858.80
6	861.40	863.00	862.00	858.60	851.60	844.30	835.00	827.50	---	828.40	844.50	858.90
7	861.50	863.00	861.90	858.40	851.30	844.10	834.60	827.40	---	---	845.20	859.00
8	861.50	863.00	861.80	858.20	851.00	843.80	834.30	827.20	822.70	---	845.90	859.10
9	861.60	863.00	861.80	858.00	850.70	843.60	834.00	827.10	---	---	846.60	859.20
10	861.70	863.00	861.70	857.70	850.40	843.30	833.60	827.00	---	---	847.20	859.30
11	861.90	863.00	861.70	857.60	850.20	843.10	833.40	826.90	---	831.40	847.80	859.40
12	862.10	863.00	861.60	857.40	849.90	842.80	833.10	826.80	---	831.90	848.40	859.50
13	862.20	863.00	861.60	857.20	849.60	842.60	832.80	826.60	---	832.40	848.90	859.60
14	862.20	863.00	861.50	857.00	849.40	842.30	832.50	826.40	---	832.90	849.20	859.70
15	862.30	863.00	861.30	856.90	849.10	842.00	832.20	826.20	823.00	833.40	849.60	860.00
16	862.40	863.00	861.20	856.70	848.80	841.70	832.00	825.90	---	833.80	850.10	860.10
17	862.50	862.90	861.20	856.50	848.60	841.40	831.70	825.70	---	834.20	850.60	860.20
18	862.50	862.90	861.20	856.30	848.40	841.20	831.40	825.40	---	834.60	851.20	860.30
19	862.60	862.80	861.10	856.20	848.10	840.90	831.10	825.40	---	835.00	851.80	860.40
20	862.60	862.80	861.00	855.90	847.90	840.60	830.80	825.30	---	835.60	852.50	860.50
21	862.60	862.80	860.80	855.60	847.60	840.30	830.60	825.20	823.10	836.00	853.00	860.50
22	862.70	862.70	860.60	855.40	847.40	840.00	830.30	824.90	823.30	836.50	853.60	860.60
23	862.70	862.60	860.50	855.20	847.10	839.70	830.00	824.80	823.50	837.00	854.10	860.60
24	862.80	862.60	860.40	854.60	846.90	839.40	829.70	824.70	823.80	837.60	854.60	860.60
25	862.80	862.60	860.20	854.40	846.70	839.00	829.40	824.60	824.00	838.10	855.40	860.60
26	862.90	862.50	860.20	854.10	846.50	838.70	829.20	824.50	824.60	838.60	856.00	860.70
27	862.90	862.50	860.00	854.00	846.30	838.30	829.00	824.50	825.30	839.00	856.50	860.70
28	862.90	862.40	---	853.80	846.10	838.00	828.80	824.60	825.80	839.50	857.40	860.70
29	863.00	862.40	---	853.60	845.90	837.70	828.60	824.50	826.30	840.00	857.70	860.80
30	863.00	862.30	---	853.30	---	837.30	828.40	824.40	826.70	840.50	857.90	861.66
31	863.00	---	---	853.10	---	837.00	---	---	---	841.00	858.10	---
MEAN	862.17	862.83	---	---	849.20	841.57	832.22	---	---	---	850.22	859.84
MAX	863.00	863.00	---	---	852.80	845.60	836.70	---	---	---	858.10	861.66
MIN	860.80	862.30	---	---	845.90	837.00	828.40	---	---	---	841.50	858.20

15281000 KNIK RIVER NEAR PALMER

LOCATION.--Lat 61°30'18", long 149°01'50", in NE¼SE¼ sec.2, T.16 N., R.2 E., Matanuska-Susitna Borough, Hydrologic Unit 19050002, near right bank on downstream side of bridge on Old Glenn Highway, 7 mi south of Palmer, 7 mi upstream from Alaska Railroad bridge, 9 mi downstream from Friday Creek, and about 17 mi downstream from Knik Glacier.

DRAINAGE AREA.--1,180 mi², approximately.

PERIOD OF RECORD.--October 1959 to current year.

REVISED RECORDS.WDR AK-77-1: 1974-75 (M).

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 30.2 ft National Geodetic Vertical Datum of 1929. Prior to June 27, 1960, nonrecording gage, and June 27, 1960 to Apr. 25, 1974, water-stage recorder at old bridge 100 ft upstream at present datum. Apr. 26, 1974 to Apr. 18, 1976, nonrecording gage at site 0.4 mi upstream at different datum.

REMARKS.--Records good except those for Nov. 15 to Apr. 13, which are poor. Flood peaks due to outbreak of Lake George, 1948-62, 1964, 1965, published in WSP 1936. Streamflow augmented by glaciers, which cover 54 percent of the basin.

AVERAGE DISCHARGE.--25 years, 6,941 ft³/s, 79.89 in/yr, 5,029,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 355,000 ft³/s July 26, 1961, gage height, 24.3 ft, site then in use, caused by release of stored water (Lake George) behind Knik Glacier; maximum gage height, 24.35 ft, site then in use, July 17, 1960; minimum daily discharge, about 260 ft³/s Mar. 1-31, 1962.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge since at least 1948, 359,000 ft³/s July 18, 1958, stage, 25.30 ft, site then in use.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 35,000 ft³/s Aug. 20, gage height, 11.86 ft; minimum daily, about 600 ft³/s Jan. 23-24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8490	2710	1600	800	650	750	1100	3000	5960	20500	20300	9200
2	8200	2870	1500	800	650	850	1100	2940	6230	19300	19700	8850
3	7950	2640	1310	800	650	1100	1100	2840	6770	19400	21400	8780
4	7200	2460	1200	750	650	1300	1100	2640	7270	18400	22400	8600
5	6300	2640	1100	750	650	1400	1100	2560	7890	20600	24400	8340
6	5790	2510	1100	750	650	1350	1100	2640	9180	23800	25000	8200
7	5200	2640	1100	750	650	1330	1100	2550	9580	25600	24500	8270
8	4520	2510	1000	750	650	1300	1100	2420	9990	26300	25700	8200
9	4280	2510	1000	750	650	1300	1100	2500	9780	23900	24900	8200
10	5400	2440	1000	750	650	1300	1100	2710	10100	22400	23200	8010
11	6400	2480	950	800	650	1300	1100	2950	11600	21800	21900	7790
12	7200	2420	950	900	650	1300	1100	3090	11600	20600	21700	7550
13	6420	2020	950	850	650	1200	1100	3330	11000	20100	20700	7790
14	6020	2000	950	800	650	1200	1150	3660	10800	19600	19300	7850
15	5780	1900	900	750	650	1200	1190	3820	11000	17500	18900	8960
16	5560	1700	900	750	650	1200	1210	4020	10900	17700	19800	9530
17	5170	1500	900	700	750	1200	1150	4230	10700	17000	21600	9310
18	5020	1400	900	700	800	1200	1070	4970	11700	16100	25700	8930
19	4750	1300	900	700	750	1200	983	5390	12700	15700	30100	8890
20	4330	1200	850	700	750	1200	999	5530	13300	15900	33400	8710
21	4200	1400	850	650	750	1200	1210	5910	14800	16200	33000	6920
22	4110	1600	850	650	740	1200	1490	5990	16000	18000	29900	5570
23	3910	1400	850	600	740	1200	1350	5590	18000	19700	25800	5030
24	3620	1200	850	600	740	1200	1220	5720	18700	20800	22900	5040
25	3370	1100	950	650	740	1200	1180	6140	19900	20900	24900	5190
26	3140	1100	950	650	740	1200	1190	6130	19100	19400	24100	5160
27	2980	1100	900	650	740	1200	1240	6170	18700	18700	18900	5130
28	3120	1300	850	700	740	1100	1680	6180	17700	19400	14700	5140
29	2960	1400	850	650	740	1100	2470	6110	20000	19700	12800	6310
30	2790	1600	800	650	---	1100	2760	6110	21400	19900	11000	11400
31	2640	---	800	650	---	1100	---	6040	---	20400	9980	---
TOTAL	156820	57050	30560	22400	20120	36980	37842	133880	382350	615300	692580	230850
MEAN	5059	1902	986	723	694	1193	1261	4319	12750	19850	22340	7695
MAX	8490	2870	1600	900	800	1400	2760	6180	21400	26300	33400	11400
MIN	2640	1100	800	600	650	750	983	2420	5960	15700	9980	5030
CFSM	4.29	1.61	.84	.61	.59	1.01	1.07	3.66	10.8	16.8	18.9	6.52
IN.	4.94	1.80	.96	.71	.63	1.17	1.19	4.22	12.05	19.40	21.83	7.28
AC-FT	311100	113200	60620	44430	39910	73350	75060	265600	758400	1220000	1374000	457900

CAL YR 1983 TOTAL 2644000 MEAN 7244 MAX 38500 MIN 720 CFSM 6.14 IN 83.35 AC-FT 5244000
WTR YR 1984 TOTAL 2416732 MEAN 6603 MAX 33400 MIN 600 CFSM 5.60 IN 76.19 AC-FT 4794000

NOTE.--No gage-height record Dec. 9 to Apr. 13.

15290000 LITTLE SUSITNA RIVER NEAR PALMER

LOCATION.--Lat 61°42'32", long 149°13'36", in NW¼ sec.26, T.19 N., R.1 E., Matanuska-Susitna Borough, Hydrologic Unit 19050002, on right bank 40 ft downstream from highway bridge on Wasilla-Fishhook Road, 1.5 mi north of road junction, 1.8 mi downstream from unnamed tributary, and 8 mi northwest of Palmer.

DRAINAGE AREA.--61.9 mi².

PERIOD OF RECORD.--July 1948 to current year. Low-flow records not equivalent prior to January 1962, because most measurements below 300 ft³/s were made at site 3.4 mi downstream.

GAGE.--Water-stage recorder. Datum of gage is 918.6 ft National Geodetic Vertical Datum of 1929 (river-profile survey). Prior to Aug. 16, 1948, nonrecording gage and Aug. 17, 1948 to May 15, 1972, water-stage recorder on left bank. Prior to Oct. 1, 1974, at datum 2.00 ft higher.

REMARKS.--Records fair except those for Oct. 23 to Apr. 25, which are poor. Several observations of water temperature were made during the year. Satellite telemeter at station.

AVERAGE DISCHARGE.--36 years, 209 ft³/s, 45.85 in/yr, 151,400 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 7,840 ft³/s Aug. 10, 1971, gage height, 9.84 ft in gage well, 12.30 ft, top of needle peak in gage well, about 13 ft from floodmarks, present datum, from rating curve extended above 4,600 ft³/s on basis of slope-area measurement of peak flow; minimum daily, about 8 ft³/s Apr. 1-20, 1956 and Mar. 11, 12, 1957.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,830 ft³/s Aug. 25, gage height, 8.17 ft, only peak above base of 1,200 ft³/s; minimum recorded, 18 ft³/s Apr. 26, but may have been less during period of ice effect Apr. 10-17 and Apr. 25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	664	170	60	43	30	30	21	36	380	554	394	424
2	572	170	60	43	30	28	20	38	491	602	375	385
3	498	160	60	43	30	26	20	31	623	533	372	357
4	441	160	58	42	29	25	20	31	743	530	393	330
5	415	150	58	42	29	23	20	33	807	585	391	306
6	424	140	58	41	29	23	20	34	837	584	370	290
7	359	130	58	40	28	22	20	41	668	517	369	273
8	334	130	58	39	28	22	20	65	636	500	379	259
9	331	120	56	38	28	22	20	99	711	533	445	246
10	586	110	56	37	28	22	19	132	697	598	398	235
11	942	100	56	37	27	21	19	155	716	525	387	226
12	746	95	54	37	27	21	19	159	745	472	341	215
13	587	90	54	37	27	21	19	179	781	577	313	208
14	505	85	54	37	27	21	19	225	707	521	314	199
15	451	80	52	37	27	21	19	273	699	483	311	191
16	409	75	52	36	28	21	19	305	644	460	308	186
17	378	70	50	36	31	21	19	360	624	417	293	187
18	352	70	50	36	35	21	20	449	736	387	301	264
19	328	70	50	34	34	20	20	480	841	424	339	401
20	308	65	49	33	34	20	20	534	908	497	291	294
21	291	65	48	32	33	20	22	588	906	634	265	260
22	267	65	48	31	33	20	23	495	908	559	263	243
23	254	65	47	30	33	20	23	457	841	510	532	235
24	245	60	46	29	33	20	21	570	718	505	659	231
25	220	60	45	28	32	21	19	483	687	620	2200	227
26	210	60	45	28	32	21	19	437	653	633	1430	227
27	230	60	45	28	32	21	24	385	680	540	995	221
28	210	60	44	28	31	21	36	382	565	522	785	218
29	200	60	44	29	30	21	33	418	581	512	637	229
30	190	60	43	30	---	21	31	400	554	467	551	251
31	185	---	43	30	---	21	---	362	---	427	479	---
TOTAL	12132	2855	1601	1091	875	678	644	8636	21087	16228	15880	7818
MEAN	391	95.2	51.6	35.2	30.2	21.9	21.5	279	703	523	512	261
MAX	942	170	60	43	35	30	36	588	908	634	2200	424
MIN	185	60	43	28	27	20	19	31	380	387	263	186
CFSM	6.32	1.54	.83	.57	.49	.35	.35	4.51	11.4	8.45	8.27	4.22
IN.	7.29	1.72	.96	.66	.53	.41	.39	5.19	12.67	9.75	9.54	4.70
AC-FT	24060	5660	3180	2160	1740	1340	1280	17130	41830	32190	31500	15510

CAL YR 1983 TOTAL 92752 MEAN 254 MAX 1200 MIN 21 CFSM 4.10 IN 55.74 AC-FT 184000
WTR YR 1984 TOTAL 89525 MEAN 245 MAX 2200 MIN 19 CFSM 3.96 IN 53.80 AC-FT 177600

NOTE.--No gage-height record Jan. 5 to Mar. 26.

15291000 SUSITNA RIVER NEAR DENALI

LOCATION.--Lat 63°06'14", long 147°30'57", in NE¼ sec.10, T.21 S., R.1 E., Matanuska-Susitna Borough, Hydrologic Unit 19050002, on upstream right pier of bridge on Denali Highway, 0.2 mi downstream from Windy Creek, 3.3 mi upstream from Butte Creek, and 5.3 mi southwest of Denali.

DRAINAGE AREA.--950 mi², approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1957 to September 1966, July 1968 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 2,440 ft, from topographic map. See WSP 2136 for history of changes prior to July 4, 1968. July 4, 1968 to Aug. 28, 1974, on left upstream wingwall, at present datum.

REMARKS.--Water-discharge records good, except those for period of no gage-height record, Oct. 4 to May 29, which are poor. Streamflow augmented by glaciers, which cover 25 percent of the basin.

AVERAGE DISCHARGE.--25 years (water years 1958-66, 1969-84), 2,766 ft³/s, 39.54 in/yr, 2,004,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 38,200 ft³/s Aug. 10, 1971, gage height, 13.32 ft, from rating curve extended above 19,000 ft³/s; maximum gage-height, 13.58 ft May 11, 1970, backwater from ice; minimum daily discharge, about 34 ft³/s Mar. 16-31, 1959.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Aug. 14 or 15, 1967 reached a stage of 12.7 ft, from floodmarks, discharge, 28,200 ft³/s, from rating curve extended above 19,000 ft³/s.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 14,000 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
June 27	0630	14,100	11.56	Aug. 7	0600	15,000	11.64
July 26	0700	*17,100	*11.85	Aug. 25	2230	14,000	11.53

Minimum daily discharge, about 190 ft³/s Apr. 1-25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984 MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2100	680	310	240	210	200	190	290	2460	11500	9510	2230
2	2100	640	310	240	210	200	190	320	2800	11900	8500	2100
3	1900	620	310	240	210	200	190	370	3230	10100	9160	2040
4	1800	600	310	240	210	200	190	420	3520	9900	10500	1980
5	1600	560	310	240	210	200	190	480	3600	10600	13000	2100
6	1500	540	300	230	210	200	190	550	4140	10600	13300	2300
7	1300	520	300	230	210	200	190	640	4840	11600	13700	2850
8	1200	500	300	230	210	200	190	740	4710	11000	13000	2860
9	1100	470	300	230	210	200	190	850	4990	10200	13000	2530
10	1200	450	300	230	210	200	190	970	5080	9830	11500	2460
11	1300	440	290	220	210	200	190	1150	5520	9690	8950	2460
12	1500	440	290	220	210	200	190	1350	6520	9300	8670	2190
13	1700	420	290	220	210	200	190	1550	8610	9230	7740	2150
14	1600	420	290	220	210	200	190	1800	9320	8500	7240	2100
15	1500	400	290	220	210	200	190	2100	9970	8920	7020	1980
16	1400	400	270	210	200	200	190	2400	11400	9750	7720	1960
17	1300	380	270	210	200	200	190	2700	11100	10000	8240	1960
18	1200	380	270	210	200	200	190	3000	10400	9180	8360	2230
19	1100	370	270	210	200	200	190	3300	9920	8500	9680	3270
20	1000	370	270	210	200	200	190	3500	10600	8790	10700	3490
21	950	350	260	210	200	200	190	3700	10500	11300	9840	2670
22	900	350	260	210	200	200	190	3800	11400	12800	6350	2130
23	850	350	260	210	200	200	190	3800	12200	11200	8400	1920
24	800	350	260	210	200	200	190	3800	11800	11400	10100	1600
25	770	350	260	210	200	200	190	3700	11600	13900	11900	1550
26	740	330	240	210	200	200	200	3400	12000	16000	9580	1500
27	720	330	240	210	200	200	210	3000	13600	13700	5160	1450
28	700	330	240	210	200	200	220	2700	12700	12500	3990	1400
29	700	330	240	210	200	200	240	2500	12000	11700	3320	1450
30	700	330	240	210	---	200	260	2290	10900	10600	2770	1500
31	700	---	240	210	---	200	---	2350	---	10100	2410	---
TOTAL	37930	13000	8590	6810	5950	6200	5880	63520	251430	334290	273310	64410
MEAN	1224	433	277	220	205	200	196	2049	8381	10780	8816	2147
MAX	2100	680	310	240	210	200	260	3800	13600	16000	13700	3490
MIN	700	330	240	210	200	200	190	290	2460	8500	2410	1400
CFSM	1.29	.46	.29	.23	.22	.21	.21	2.16	8.82	11.3	9.28	2.26
IN.	1.49	.51	.34	.27	.23	.24	.23	2.49	9.85	13.09	10.70	2.52
AC-FT	75230	25790	17040	13510	11800	12300	11660	126000	498700	663100	542100	127800

CAL YR 1983 TOTAL 1031360 MEAN 2826 MAX 15800 MIN 240 CFSM 2.98 IN 40.39 AC-FT 2046000
WTR YR 1984 TOTAL 1071320 MEAN 2927 MAX 16000 MIN 190 CFSM 3.08 IN 41.95 AC-FT 2125000

SOUTH-CENTRAL ALASKA

15291000 SUSITNA RIVER NEAR DENALI--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1957-66, 1968-69, 1974 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM WIDTH (FT) (00004)	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	TEMPER-ATURE (DEG C) (00010)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SED. SUSP. FALL DIAM. % FINER THAN .062 MM (70342)	SED. SUSP. FALL DIAM. % FINER THAN .125 MM (70343)	SED. SUSP FALL DIAM. % FINER THAN .250 MM (70344)	SED. SUSP. FALL DIAM. % FINER THAN .500 MM (70345)	SED. SUSP. FALL DIAM. % FINER THAN 1.00 MM (70346)
FEB											
28...	1630	--	195	--	32	17	--	--	--	--	--
MAY											
30...	1745	846	2320	--	703	4400	11	14	26	75	100
JUL											
19...	2030	--	8030	6.5	652	14100	*54	--	--	--	--
AUG											
22...	1620	945	6940	5.0	615	11500	*65	--	--	--	--
SEP											
27...	1200	--	1460	--	224	883	*60	--	--	--	--

* SIEVE ANALYSES

BEST COPY AVAILABLE

15291200 MACLAREN RIVER NEAR PAXSON

LOCATION.--Lat 63°07'10", long 146°31'45", Matanuska-Susitna Borough, Hydrologic Unit 19050002, near left bank on downstream side of bridge on Denali Highway, 1.5 mi downstream from Boulder Creek, and 34 mi west of Paxson.

DRAINAGE AREA.--280 mi², approximately.

PERIOD OF RECORD.--June 1958 to current year.

GAGE.--Water-stage recorder. Datum of gage is 2,865.84 ft National Geodetic Vertical Datum (Alaska Department of Public Works bench mark). See WSP 2136 for history of changes prior to Aug. 23, 1968.

REMARKS.--Records poor for periods of no gage-height record prior to May 31 and after Aug. 26, fair otherwise. Streamflow augmented by Maclaren Glacier, which covers 19 percent of the basin. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--26 years, 977 ft³/s, 47.38 in/yr, 707,800 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,260 ft³/s Aug. 11, 1971, gage height, 8.24 ft, from rating curve extended above 5,300 ft³/s; maximum gage height, 9.10 ft in May 1964, from floodmarks, backwater from ice; minimum daily discharge, about 40 ft³/s Mar. 1-25, 1965.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 4,200 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
June 28	0200	*4,950	*5.93	Aug. 25	2230	4,470	5.67
July 26	0400	4,460	5.66				

Minimum daily discharge, about 78 ft³/s Apr. 6-17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	850	270	140	100	90	90	80	175	1530	3580	2680	540
2	780	270	140	100	90	90	80	200	1660	3650	2560	490
3	720	260	140	100	90	85	80	230	1790	3390	2850	460
4	660	260	140	100	90	85	80	270	1970	3230	3250	440
5	620	250	140	100	90	85	80	300	2070	3290	3500	500
6	580	250	130	100	90	85	78	360	2310	3270	3440	640
7	520	240	130	100	90	85	78	420	2490	3360	3200	780
8	480	240	130	100	90	85	78	480	2280	3100	3010	880
9	440	230	130	100	90	85	78	540	2350	2760	3190	700
10	480	230	130	100	90	85	78	600	2400	2760	2690	680
11	540	220	130	100	90	85	78	680	2500	2720	2390	660
12	570	210	120	100	90	85	78	780	2580	2590	2200	600
13	600	200	120	95	90	85	78	850	3560	2550	2020	570
14	590	200	120	95	90	85	78	950	3440	2400	1950	530
15	580	190	120	95	90	85	78	1100	3490	2460	2020	510
16	550	190	120	95	90	85	78	1200	3160	2550	2160	500
17	500	190	120	95	90	85	78	1300	2910	2550	2250	520
18	480	180	120	95	90	80	80	1350	3100	2310	2280	600
19	450	180	110	95	90	80	80	1450	3370	2240	2860	900
20	430	180	110	95	90	80	80	1500	3670	2210	3240	1150
21	400	170	110	95	90	80	80	1550	3940	2400	2880	950
22	370	170	110	90	90	80	80	1600	4130	2640	2260	700
23	350	160	110	90	90	80	85	1600	4100	2620	2380	560
24	330	160	110	90	90	80	85	1500	4280	2760	2440	500
25	320	160	110	90	90	80	90	1450	4130	3630	3580	460
26	310	150	110	90	90	80	100	1400	4210	4170	2300	440
27	300	150	110	90	90	80	110	1300	4810	3610	1600	420
28	290	150	110	90	90	80	125	1200	4390	3370	1100	400
29	280	140	110	90	90	80	140	1150	4010	3220	850	420
30	280	140	110	90	---	80	160	1200	3660	2950	660	430
31	270	---	100	90	---	80	---	1300	---	2850	600	---
TOTAL	14920	5990	3740	2955	2610	2575	2631	29985	94290	91190	74390	17930
MEAN	481	200	121	95.3	90.0	83.1	87.7	967	3143	2942	2400	598
MAX	850	270	140	100	90	90	160	1600	4810	4170	3580	1150
MIN	270	140	100	90	90	80	78	175	1530	2210	600	400
CFSM	1.72	.71	.43	.34	.32	.30	.31	3.45	11.2	10.5	8.57	2.14
IN.	1.98	.80	.50	.39	.35	.34	.35	3.98	12.53	12.12	9.88	2.38
AC-FT	29590	11880	7420	5860	5180	5110	5220	59480	187000	180900	147600	35560

CAL YR 1983 TOTAL 356490 MEAN 977 MAX 4800 MIN 100 CFSM 3.49 IN 47.36 AC-FT 707100
WTR YR 1984 TOTAL 343206 MEAN 938 MAX 4810 MIN 78 CFSM 3.35 IN 45.60 AC-FT 680700

15291500 SUSITNA RIVER NEAR CANTWELL

LOCATION.--Lat 62°41'55", long 147°32'42", in SE¼SE¼ sec.10, T.30 N., R.10 E., Matanuska-Susitna Borough, Hydrologic Unit 19050002, on left bank at lower end of gorge, 8 mi east of Clarence Lake, 9.7 mi downstream from Oshetna River, and 65 mi southeast of Cantwell.

DRAINAGE AREA.--4,140 mi², approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1961 to September 1972, June 1980 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 1,900 ft, from topographic map. Prior to May 29, 1980, gage on opposite bank and different datum.

REMARKS.--Water-discharge records good except those for period of no gage-height record, Oct. 8 to June 13, which are poor. Large diurnal fluctuations at times each year caused by glacier melt at the source. Satellite telemetry installed May 1983.

AVERAGE DISCHARGE.--15 years (water years 1962-72, 1981-84), 6,421 ft³/s, 21.06 in/yr, 4,652,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 55,000 ft³/s Aug. 10, 1971 on basis of discharge recorded at stations 15291000 and 15292000; minimum daily discharge, about 400 ft³/s Mar. 16-31, 1964.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 33,400 ft³/s June 16, gage height, 8.98 ft; minimum daily, about 1,400 ft³/s Mar. 26 to Apr. 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9400	3200	1600	1500	1500	1500	1400	1600	8400	21400	17000	6750
2	9400	3000	1600	1500	1500	1500	1400	1700	9000	19000	15800	6250
3	8300	2900	1600	1500	1500	1500	1400	1900	9800	18800	14900	6200
4	7400	2800	1600	1500	1500	1500	1400	2000	11000	18000	15500	6360
5	6700	2700	1600	1500	1500	1500	1400	2200	12000	16900	16600	6150
6	6200	2600	1600	1500	1500	1500	1400	2600	13000	17100	18400	6320
7	5600	2500	1600	1500	1500	1500	1400	2900	14000	16800	18300	6900
8	5200	2400	1600	1500	1500	1500	1400	3400	15000	17200	18200	7390
9	5200	2300	1600	1500	1500	1500	1400	3900	16000	16500	17600	7570
10	5600	2200	1600	1500	1500	1500	1400	4300	16000	16800	18100	6920
11	6000	2100	1600	1500	1500	1500	1400	5000	16000	17500	15600	6210
12	7200	2100	1600	1500	1500	1500	1400	5800	19000	16400	14100	5500
13	7400	2100	1600	1500	1500	1500	1400	6800	23000	15900	13100	4970
14	7000	2000	1600	1500	1500	1500	1400	8400	22000	15600	12000	4880
15	6000	2000	1600	1500	1500	1500	1400	9400	21500	14600	11400	4410
16	5600	1900	1600	1500	1500	1500	1400	11000	30100	15000	11400	3890
17	5200	1900	1600	1500	1500	1500	1400	12000	30100	16500	12000	3800
18	4900	1900	1600	1500	1500	1500	1400	13000	24500	17100	12400	3800
19	4700	1900	1600	1500	1500	1500	1400	14000	21600	16000	12600	4160
20	4600	1900	1600	1500	1500	1500	1400	15000	21200	15100	14600	6100
21	4300	1800	1600	1500	1500	1500	1400	16000	21300	15100	15200	6730
22	4000	1800	1600	1500	1500	1500	1400	16000	20900	16900	13800	5750
23	3800	1800	1600	1500	1500	1500	1400	16000	21500	17300	11800	4220
24	3600	1800	1600	1500	1500	1500	1400	16000	21400	16000	13900	3570
25	3500	1800	1600	1500	1500	1500	1400	15000	20200	18000	16200	3300
26	3400	1700	1600	1500	1500	1400	1400	13000	19400	23300	20300	3200
27	3300	1700	1600	1500	1500	1400	1400	11000	21200	23700	15000	3100
28	3300	1700	1600	1500	1500	1400	1400	10000	23500	21700	11100	3000
29	3300	1700	1600	1500	1500	1400	1400	9200	21400	20900	9470	3200
30	3300	1700	1600	1500	---	1400	1500	8400	20400	19600	8330	3520
31	3300	---	1600	1500	---	1400	---	8200	---	18000	7400	---
TOTAL	166700	63900	49600	46500	43500	45900	42100	265700	564400	548700	442100	154120
MEAN	5377	2130	1600	1500	1500	1481	1403	8571	18810	17700	14260	5137
MAX	9400	3200	1600	1500	1500	1500	1500	16000	30100	23700	20300	7570
MIN	3300	1700	1600	1500	1500	1400	1400	1600	8400	14600	7400	3000
CFSM	1.30	.51	.39	.36	.36	.36	.34	2.07	4.54	4.28	3.44	1.24
IN.	1.50	.57	.45	.42	.39	.41	.38	2.39	5.07	4.93	3.97	1.38
AC-FT	330600	126700	98380	92230	86280	91040	83510	527000	1119000	1088000	876900	305700

CAL YR 1983 TOTAL 2464150 MEAN 6751 MAX 24500 MIN 1100 CFSM 1.63 IN 22.14 AC-FT 4888000
WTR YR 1984 TOTAL 2433220 MEAN 6648 MAX 30100 MIN 1400 CFSM 1.61 IN 21.86 AC-FT 4826000

15291500 SUSITNA RIVER NEAR CANTWELL--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1962-72 and 1980 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: May to October 1980, June 1982 to current year (seasonal).

INSTRUMENTATION.--Temperature recorder since May 1980.

REMARKS.--Recorded temperatures were found to be within 0.5°C of mean stream temperature based on one cross-sectional measurement with no variation observed within the cross section. Several other observations of water temperature were made during the water year.

EXTREMES OUTSIDE PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Minimum, 0.0°C on most days during winter period.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum recorded, 13.5°C June 25, 26, 1982, and June 25, 26, 1983.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum recorded, 13.0°C June 22, and Aug. 5, 6.

TEMPERATURE, WATER (DEG. C), JUNE TO SEPTEMBER 1984

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1					---	---	12.0	10.0	10.5	9.5	6.0	4.0
2					---	---	11.5	10.0	10.0	9.5	7.0	5.5
3					---	---	11.0	9.0	12.0	10.0	6.0	5.5
4					---	---	11.5	10.0	13.0	11.0	6.5	5.0
5					---	---	12.0	10.5	13.0	12.0	7.5	5.5
6					---	---	11.5	10.5	12.0	10.5	8.0	7.0
7					---	---	11.5	10.0	12.0	11.0	7.5	6.5
8					---	---	11.0	9.5	11.5	10.0	7.5	6.0
9					---	---	10.5	8.5	11.5	10.5	8.0	6.0
10					---	---	11.0	9.5	10.5	9.5	7.5	6.0
11					---	---	11.0	9.5	11.0	9.0	8.0	5.5
12					---	---	11.5	10.0	10.5	9.0	7.5	5.5
13					---	---	11.0	10.0	10.0	8.5	7.0	6.5
14					---	---	11.0	10.5	10.5	9.0	7.0	6.0
15					8.0	6.5	11.0	9.5	11.5	9.5	7.5	6.0
16					6.5	5.0	10.5	10.0	11.5	10.5	7.0	5.5
17					9.0	6.0	10.0	8.0	11.5	10.0	7.0	6.5
18					11.5	8.5	8.0	7.5	11.0	9.0	7.0	6.0
19					12.5	10.5	8.5	7.5	9.5	8.5	7.0	6.0
20					12.5	11.0	8.5	7.5	9.0	8.0	6.5	5.5
21					12.5	10.5	8.0	7.5	8.5	7.5	5.5	4.5
22					13.0	11.0	8.5	7.5	8.5	7.5	5.0	3.5
23					12.5	11.0	10.5	8.5	9.5	8.5	5.0	3.5
24					11.0	9.5	11.5	10.0	8.5	7.0	5.5	4.0
25					12.0	10.0	11.5	9.5	6.5	5.0	5.5	4.5
26					12.0	10.5	9.5	8.5	5.5	4.0	6.5	5.0
27					10.5	8.5	10.0	7.5	4.5	3.5	6.0	4.5
28					10.0	7.5	11.5	10.0	5.0	3.5	5.0	3.5
29					10.5	10.0	11.5	9.5	5.0	3.5	5.5	4.0
30					11.0	9.5	10.0	8.5	5.5	4.5	6.5	5.0
31					---	---	10.5	9.0	5.5	5.0	---	---
MONTH					13.0	5.0	12.0	7.5	13.0	3.5	8.0	3.5

YEAR 13.0

15292000 SUSITNA RIVER AT GOLD CREEK

LOCATION.--Lat 62°46'04", long 149°41'28", in NW¼ sec.20, T.31 N., R.2 W., Matanuska-Susitna Borough, Hydrologic Unit 19050002, near left bank under Alaska Railroad bridge, 0.1 mi downstream from Gold Creek, 0.9 mi north of Gold Creek railroad station, and 2.0 mi downstream from Indian River.

DRAINAGE AREA.--6,160 mi^2, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1949 to current year.

GAGE.--Water-stage recorder. Datum of gage is 676.50 ft National Geodetic Vertical Datum of 1929. Prior to June 6, 1957, nonrecording gage at same site and datum. June 7, 1957 to June 2, 1964, water-stage recorder at site 0.3 mi upstream at same datum.

REMARKS.--Water-discharge records good except those for Oct. 24 to May 15, which are poor. Satellite telemetry at station.

AVERAGE DISCHARGE.--35 years, 9,720 ft^3/s, 21.43 in/yr, 7,042,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 90,700 ft^3/s June 7, 1964, gage height, 16.58 ft; maximum gage height observed, 24.48 ft May 10, 1954, ice jam; minimum daily discharge, about 600 ft^3/s Feb. 16-20, 1950.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 59,100 ft^3/s June 17, gage height, 14.09 ft; minimum daily, about 1,800 ft^3/s Apr. 1-28.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12800	5100	2500	2100	2000	1900	1800	2100	12200	25500	23400	12700
2	13500	4900	2400	2100	2000	1900	1800	2200	13100	24800	22000	11800
3	12900	4600	2400	2100	2000	1900	1800	2400	15100	25100	20400	11200
4	11400	4100	2400	2100	2000	1900	1800	2600	17200	23200	20000	10800
5	10200	3900	2400	2100	2000	1900	1800	2900	18000	22400	21100	10400
6	9570	3600	2400	2100	2000	1900	1800	3300	18200	22300	23300	10300
7	8610	3500	2400	2100	2000	1900	1800	3700	19300	21900	23400	10700
8	7540	3300	2400	2100	2000	1900	1800	4300	20300	21500	23000	10900
9	7380	3200	2300	2100	2000	1900	1800	5000	21100	21400	24500	10600
10	7710	3100	2300	2100	2000	1900	1800	6000	21900	21200	24000	9890
11	9180	3100	2300	2100	2000	1900	1800	7500	21500	23100	22500	9330
12	10800	3000	2300	2100	2000	1900	1800	9000	21300	21900	19000	9080
13	12000	3000	2300	2100	2000	1900	1800	10500	25900	21200	17600	9000
14	11000	3000	2300	2100	2000	1900	1800	12000	31500	21200	16100	8800
15	9650	3000	2300	2100	2000	1900	1800	14000	31200	19400	15100	8520
16	8690	2900	2200	2000	2000	1900	1800	15500	40600	18600	14500	8280
17	7990	2900	2200	2000	2000	1900	1800	16500	52000	20500	14800	8130
18	7560	2800	2200	2000	2000	1900	1800	19100	40600	21700	15600	8370
19	7830	2800	2200	2000	2000	1900	1800	21900	33600	21600	17400	9390
20	7560	2800	2200	2000	2000	1900	1800	21200	31500	21100	18500	10400
21	7140	2700	2200	2000	1900	1900	1800	21900	31400	22300	19900	11400
22	6840	2700	2200	2000	1900	1900	1800	24100	30900	23000	19100	10300
23	6570	2700	2200	2000	1900	1900	1800	24400	31100	23500	17900	9010
24	6200	2600	2200	2000	1900	1900	1800	24000	30000	21600	22700	8290
25	5800	2600	2200	2000	1900	1900	1800	25400	28400	22800	29800	7890
26	5600	2600	2100	2000	1900	1900	1800	23800	26600	30500	31700	7680
27	5200	2600	2100	2000	1900	1900	1800	19400	28700	34200	27700	7470
28	4900	2500	2100	2000	1900	1900	1800	16300	32000	31000	21000	7320
29	4900	2500	2100	2000	1900	1900	1900	14700	30100	28500	17400	7410
30	5100	2500	2100	2000	---	1900	2000	13500	27900	27500	15300	7500
31	5200	---	2100	2000	---	1900	---	12600	---	25300	13600	---
TOTAL	257320	94600	70000	63500	57100	58900	54300	401800	803200	729800	632300	282860
MEAN	8301	3153	2258	2048	1969	1900	1810	12960	26770	23540	20400	9429
MAX	13500	5100	2500	2100	2000	1900	2000	25400	52000	34200	31700	12700
MIN	4900	2500	2100	2000	1900	1900	1800	2100	12200	18600	13600	7320
CFSM	1.35	.51	.37	.33	.32	.31	.29	2.10	4.35	3.82	3.31	1.53
IN.	1.55	.57	.42	.38	.34	.36	.33	2.43	4.85	4.41	3.82	1.71
AC-FT	510400	187600	138800	126000	113300	116800	107700	797000	1593000	1448000	1254000	561100

CAL YR 1983 TOTAL 3678580 MEAN 10080 MAX 36000 MIN 1500 CFSM 1.64 IN 22.21 AC-FT 7296000
WTR YR 1984 TOTAL 3505680 MEAN 9578 MAX 52000 MIN 1800 CFSM 1.56 IN 21.17 AC-FT 6954000

NOTE.--No gage-height record Nov. 28 to May 9.

15292000 SUSITNA RIVER AT GOLD CREEK--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1949-58, 1692, 1967-68, 1974 TO CURRENT YEAR.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: 1982 to current year (seasonal).

INSTRUMENTATION.--Water-quality recorder since Aug. 20, 1982.

REMARKS.--Period of no record due to equipment malfunction. Recorded temperatures were found to be within 0.5° of mean stream temperature based on three cross-sectional measurements, with a maximum variation of 0.6°C observed within the cross sections. Several other field observations of water temperature were made during the year.

EXTREMES OUTSIDE PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Minimum; 0.0°C most days during the winter period.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum recorded, 15.0°C June 28, 29, 1983.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum recorded, 14.0°C Aug. 6, 7.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	SAMPLE LOC-ATION, CROSS SECTION (FT FM L BANK) (00009)	SPE-CIFIC CON-DUCT-ANCE (UMHOS) (00095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)
OCT								
03...	1701	130	151	7.3	2.5	--	--	--
03...	1702	190	149	7.7	2.5	--	--	--
03...	1703	230	149	8.0	2.5	--	--	--
03...	1704	270	144	8.1	2.5	--	--	--
03...	1705	330	134	8.3	2.5	--	--	--
MAY								
31...	0835	130	117	7.3	7.0	745	12.0	101
31...	0836	185	116	7.5	7.0	745	12.1	102
31...	0837	230	115	7.6	7.0	745	12.1	102
31...	0838	270	113	7.6	7.0	745	12.1	102
31...	0839	340	105	7.6	6.5	745	12.1	101
JUN								
27...	1308	120	118	8.0	11.0	737	10.6	100
27...	1310	180	117	7.7	11.0	737	10.7	101
27...	1312	220	115	7.8	11.0	737	10.7	100
27...	1314	280	117	8.0	11.0	737	10.5	98
27...	1316	350	107	7.9	10.5	737	10.6	98
JUL								
25...	1225	120	121	7.6	12.5	747	10.2	97
25...	1226	180	120	7.6	12.0	747	10.2	97
25...	1227	230	119	7.6	12.0	747	10.2	97
25...	1228	280	117	7.6	12.0	747	10.2	97
25...	1229	350	112	7.6	12.0	747	10.1	95
AUG								
23...	1340	85.0	--	7.6	10.0	739	10.8	99
23...	1341	145	--	7.5	10.0	739	10.8	98
23...	1342	190	--	7.5	9.5	739	10.8	98
23...	1343	235	--	7.5	9.5	739	10.9	99
23...	1344	300	--	7.0	10.5	739	11.4	105
SEP								
28...	1255	80.0	181	8.0	4.5	748	11.7	93
28...	1256	130	179	7.8	5.0	--	--	--
28...	1257	170	176	7.8	5.0	--	--	--
28...	1258	210	176	7.8	5.0	--	--	--
28...	1259	270	165	8.0	5.0	748	13.3	106

15292000 SUSITNA RIVER AT GOLD CREEK--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM WIDTH (FT) (00004)	STREAM-FLOW, INSTANTANEOUS (CFS) (00061)	TURBIDITY (NTU) (00076)	HARDNESS (MG/L AS CACO3) (00900)	HARDNESS, NONCARBONATE (MG/L CACO3) (00902)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	ALKALINITY FIELD (MG/L AS CACO3) (00410)
OCT											
03...	1706	380	12400	7.6	59	14	19	2.9	6.0	1.3	48
MAY											
31...	0840	382	12600	9.7	47	11	15	2.3	4.4	1.4	--
JUN											
27...	1400	--	29200	110	51	11	17	2.0	3.2	1.9	41
JUL											
25...	1230	--	29100	70	51	7	17	2.1	3.7	1.7	44
AUG											
23...	1345	400	18000	130	59	17	20	2.1	3.9	1.8	42
SEP											
28...	1300	360	7140	8.3	71	20	23	3.4	8.0	1.9	52

DATE	ALKALINITY, CARBONATE IT-FLD (MG/L - CACO3) (99430)	BICARBONATE IT-FLD (MG/L AS HCO3) (99440)	CARBONATE IT-FLD (MG/L AS CO3) (99445)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)
OCT											
03...	46	56	.000	16	8.5	<.10	8.8	99	90	--	<.10
MAY											
31...	--	--	--	11	7.3	<.10	6[illegible]	68	70	--	<.10
JUN											
27...	39	48	.000	11	3.8	<.10	5.3	69	68	<.10	<.10
JUL											
25...	44	54	.000	14	4.7	.20	6.4	70	77	<.10	<.10
AUG											
23...	--	--	--	18	5.4	<.10	5.0	--	81	--	<.10
SEP											
28...	--	--	--	17	11	<.10	9.5	101	110	--	<.10

DATE	NITROGEN, AMMONIA TOTAL (MG/L AS N) (00610)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N) (00607)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	PHOSPHORUS, DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P) (00671)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC SUSPENDED TOTAL (MG/L AS C) (00689)
OCT											
03...	--	.090	--	--	.60	--	.040	.010	<.010	--	--
MAY											
31...	--	.020	--	--	.70	--	.010	.010	.010	--	--
JUN											
27...	<.010	<.010	--	--	1.5	<.20	.300	<.010	--	1.9	.40
JUL											
25...	.020	.050	.28	.25	.30	.30	.310	<.010	--	50	.40
AUG											
23...	--	.050	--	--	<.20	--	.190	.010	.010	--	--
SEP											
28...	--	.020	--	--	.20	--	.010	.020	<.010	--	--

DATE	TIME	ARSENIC TOTAL (UG/L AS AS) (01002)	ARSENIC DISSOLVED (UG/L AS AS) (01000)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA) (01007)	BARIUM, DISSOLVED (UG/L AS BA) (01005)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	CADMIUM DISSOLVED (UG/L AS CD) (01025)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	CHROMIUM, DISSOLVED (UG/L AS CR) (01030)	COBALT, TOTAL RECOVERABLE (UG/L AS CO) (01037)
JUN										
27...	1400	4	<1	100	33	<1	<1	30	<10	10
JUL										
25...	1230	3	<1	300	33	<1	<1	<10	<10	4

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15292000 SUSITNA RIVER AT GOLD CREEK--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU) (01042)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB) (01051)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG) (71900)
JUN 27...	10	33	4	17000	61	14	<1	270	5	.1
JUL 25...	<1	20	3	11000	170	17	<1	180	6	3.0

DATE	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI) (01067)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, TOTAL (UG/L AS SE) (01147)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG) (01077)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN) (01092)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)
JUN 27...	<.1	21	6	<1	<1	<1	<1	60	15
JUL 25...	.2	18	3	--	<1	<1	<1	30	10

DATE	TIME	STREAM WIDTH (FT) (00004)	STREAM- FLOW, INSTAN- TANEOUS (CFS) (00061)	SEDI- MENT, SUS- PENDED (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)	SED. SUSP. FALL DIAM. % FINER THAN .002 MM (70337)	SED. SUSP. FALL DIAM. % FINER THAN .004 MM (70338)	SED. SUSP. FALL DIAM. % FINER THAN .008 MM (70339)
OCT 03...	1706	380	12400	74	2480	--	--	--
MAY 31...	0840	382	12600	82	2790	--	--	--
JUN 27...	1400	--	29200	476	37500	24	29	32
JUL 25...	1230	--	29100	317	24900	20	24	27
AUG 23...	1345	400	18000	273	13300	26	33	44
SEP 28...	1300	360	7140	17	328	--	--	--

DATE	SED. SUSP. FALL DIAM. % FINER THAN .016 MM (70340)	SED. SUSP. FALL DIAM. % FINER THAN .031 MM (70341)	SED. SUSP. FALL DIAM. % FINER THAN .062 MM (70342)	SED. SUSP. FALL DIAM. % FINER THAN .125 MM (70343)	SED. SUSP. FALL DIAM. % FINER THAN .250 MM (70344)	SED. SUSP. FALL DIAM. % FINER THAN .500 MM (70345)	SED. SUSP. FALL DIAM. % FINER THAN 1.00 MM (70346)
OCT 03...	--	--	*43	--	--	--	--
MAY 31...	--	--	31	44	69	99	100
JUN 27...	40	47	58	68	86	98	100
JUL 25...	33	45	57	68	85	99	100
AUG 23...	58	70	76	82	92	100	100
SEP 28...	--	--	79	85	92	100	--

* SIEVE ANALYSIS

15292000 SUSITNA RIVER AT GOLD CREEK--Continued

TEMPERATURE, WATER (DEG. C), MAY TO AUGUST 1984

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1			---		10.0	6.5	13.0	11.5	11.0	10.5		
2			---		10.0	7.0	12.0	11.5	11.0	10.5		
3			---		10.5	7.0	12.0	11.0	12.0	11.0		
4			---		10.0	7.5	13.0	11.5	13.0	12.0		
5			---		9.5	7.5	13.0	12.0	13.5	12.5		
6			---		9.0	8.0	13.5	12.0	14.0	13.0		
7			---		9.5	7.5	13.0	11.5	14.0	12.5		
8			---		10.0	7.5	12.0	11.5	13.5	12.5		
9			---		9.0	8.0	12.0	11.0	13.0	12.0		
10			---		10.0	8.5	12.0	11.0	12.0	11.5		
11			---		10.5	8.5	13.0	11.0	12.0	11.0		
12			---		10.0	8.5	12.5	11.5	12.0	10.5		
13			---		9.5	8.0	13.0	12.0	12.0	10.5		
14			---		9.5	7.0	12.5	12.0	12.0	10.5		
15			---		9.0	7.5	13.0	11.5	12.5	10.5		
16			---		7.5	7.0	13.0	12.0	13.0	11.5		
17			---		9.0	6.5	12.0	10.5	12.5	12.0		
18			---		11.0	8.0	10.5	9.5	12.0	11.5		
19			---		12.5	9.5	9.5	9.0	11.5	10.0		
20			---		12.5	10.5	9.5	9.0	10.5	10.0		
21			---		13.0	10.5	9.0	8.5	10.0	9.5		
22			---		13.5	11.0	10.0	8.5	10.0	9.5		
23			---		12.5	11.0	12.0	9.5	10.0	9.5		
24			---		11.5	10.5	12.0	11.5	---	---		
25			---		13.0	11.0	12.0	11.0	---	---		
26			---		12.5	11.0	11.0	10.0	---	---		
27			---		11.5	9.5	11.0	9.5	---	---		
28			---		11.0	9.5	11.0	10.5	---	---		
29			---		11.5	10.5	11.5	11.0	---	---		
30			---		13.0	11.0	11.5	10.0	---	---		
31			9.5		---	---	11.0	10.5	---	---		
MONTH					13.5	6.5	13.5	8.5	14.0	9.5		
YEAR	14.0											

15292400 CHULITNA RIVER NEAR TALKEETNA

LOCATION.--Lat 62°33'31", long 150°14'02", in SE¼ sec.32, T.29 N., R.5 W., Matanuska-Susitna Borough, Hydrologic Unit 19050002, on right bank, 0.5 mi downstream from Parks Highway bridge, 4.5 mi downstream from Troublesome Creek, 18 mi upstream from mouth, and 16 mi northwest of Talkeetna.

DRAINAGE AREA.--2,570 mi², approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--February 1958 to September 1972 and annual maximum, water years 1973-77, 1979. May 1980 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 500 ft, from topographic map. Prior to July 30, 1964, at site 3 mi downstream at different datum. Oct. 1, 1972 to Apr. 30, 1980, crest-stage gage at site 150 ft upstream at same datum. Streamflow augmented by glaciers, which cover 27 percent of the basin.

REMARKS.--Records poor prior to May 28 and after Aug..23, fair otherwise.

AVERAGE DISCHARGE.--18 years (water years 1959-72, 1981-84), 8,779 ft³/s, 46.39 in/yr, 6,360,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 75,900 ft³/s July 20, 1967, gage height, 22.48 ft; minimum daily, about 650 ft³/s Apr. 1-15, 1963.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, about 37,000 ft³/s Aug. 26; on basis of comparison of peak flow with miscellaneous site 3.9 mi downstream; minimum daily, about 1,200 ft³/s Mar. 19 to Apr. 11.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	22600	3800	2500	2300	1800	1300	1200	1900	9750	23500	20600	12500
2	17600	3700	2500	2300	1800	1300	1200	1900	10800	24500	19700	12000
3	14100	3700	2500	2300	1700	1300	1200	2000	11600	22900	19600	11500
4	12000	3600	2500	2300	1700	1300	1200	2100	12600	23500	20900	11000
5	11100	3500	2500	2300	1700	1300	1200	2300	13500	25500	23500	11000
6	10600	3400	2500	2300	1600	1300	1200	2500	14600	25500	25500	11000
7	9950	3300	2400	2200	1600	1300	1200	2700	15600	24300	26700	11000
8	9230	3200	2400	2200	1600	1300	1200	2900	15100	23700	26700	11500
9	9360	3100	2400	2200	1600	1300	1200	3200	15400	22600	26300	12000
10	9180	3000	2400	2200	1600	1300	1200	3700	15100	20400	24500	10500
11	11900	2900	2400	2200	1500	1300	1200	4200	15200	19800	21400	9840
12	14400	2900	2400	2100	1500	1300	1300	4400	16000	19600	19900	9460
13	12300	2800	2400	2100	1500	1300	1300	4600	18000	19100	18800	10400
14	9960	2800	2400	2100	1500	1300	1300	5200	18100	18000	18600	10900
15	8500	2800	2400	2000	1500	1300	1300	6400	19400	17900	18700	9390
16	8000	2700	2400	2000	1500	1300	1400	7400	19600	19000	19000	8580
17	7500	2700	2400	2000	1500	1300	1400	8550	20000	19700	19800	8160
18	7000	2700	2300	2000	1400	1300	1400	9520	18900	19500	22300	8500
19	6600	2700	2300	2000	1400	1200	1400	10300	19100	19300	28400	10000
20	6200	2700	2300	2000	1400	1200	1400	11600	20900	20700	31300	14000
21	5800	2600	2300	1900	1400	1200	1500	13300	22300	22500	27100	11500
22	5400	2600	2300	1900	1400	1200	1500	14100	24200	21400	22800	9500
23	5000	2600	2300	1900	1400	1200	1500	13200	25500	20300	24000	9000
24	4800	2600	2300	1900	1400	1200	1500	13000	24000	20900	27000	8500
25	4400	2600	2400	1900	1400	1200	1500	11900	23600	22300	32000	8000
26	4200	2600	2400	1800	1400	1200	1600	12000	23600	29500	36000	7600
27	4000	2600	2400	1800	1300	1200	1600	11500	24800	28600	24000	7490
28	4000	2500	2400	1800	1300	1200	1700	10600	23600	26400	18000	7400
29	3900	2500	2300	1800	1300	1200	1700	10200	23500	24300	16000	7500
30	3800	2500	2300	1800	---	1200	1800	9990	23600	23600	14000	7900
31	3800	---	2300	1800	---	1200	---	9600	---	21700	13000	---
TOTAL	267160	87700	74000	63400	43700	39000	41300	226760	557950	690500	706100	297620
MEAN	8618	2923	2387	2045	1507	1258	1377	7315	18600	22270	22780	9921
MAX	22600	3800	2500	2300	1800	1300	1800	14100	25500	29500	36000	14000
MIN	3800	2500	2300	1800	1300	1200	1200	1900	9750	17900	13000	7400
CFSM	3.35	1.14	.93	.80	.59	.49	.54	2.85	7.24	8.67	8.86	3.86
IN.	3.87	1.27	1.07	.92	.63	.56	.60	3.28	8.08	9.99	10.22	4.31
AC-FT	529900	174000	146800	125800	86680	77360	81920	449800	1107000	1370000	1401000	590300

CAL YR 1983 TOTAL 3127450 MEAN 8568 MAX 46800 MIN 1000 CFSM 3.33 IN 45.27 AC-FT 6203000
WTR YR 1984 TOTAL 3095190 MEAN 8457 MAX 36000 MIN 1200 CFSM 3.29 IN 44.80 AC-FT 6139000

NOTE.--No gage-height record Oct. 15 to May 16 and Aug. 24 to Sept. 10.

15292400 CHULITNA RIVER NEAR TALKEETNA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1958-59, 1967-72, and 1980 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: May 1982 to current year (seasonal).

INSTRUMENTATION.--Temperature recorder since May 1982.

REMARKS.--Recorded temperatures were found to be within 0.9°C of mean stream temperature based on two cross-sectional measurements, with a maximum variation of 1.1°C observed within the cross section. Several other field observations of water temperature were made during the year.

EXTREMES OUTSIDE PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Minimum, 0.0°C most days during winter period.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum recorded, 10.5°C May 31 to June 5, 1984.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum recorded, 10.5°C May 31 to June 5.

TEMPERATURE, WATER (DEG. C), MAY TO SEPTEMBER 1984

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1			---	---	10.5	7.0	7.0	6.5	6.0	5.5	6.0	4.5
2			---	---	10.5	7.0	7.0	6.0	6.0	5.5	6.0	5.0
3			---	---	10.5	7.5	6.5	5.5	6.5	5.5	6.5	5.0
4			---	---	10.5	7.5	7.0	6.0	7.0	6.0	6.5	5.0
5			---	---	10.5	7.5	7.0	6.5	7.0	5.5	6.5	5.5
6			---	---	9.5	5.5	6.5	6.0	7.0	5.5	6.5	5.5
7			---	---	8.0	5.5	6.5	5.5	7.5	5.5	6.0	5.5
8			---	---	9.5	6.0	6.5	6.0	7.0	5.5	6.5	5.0
9			---	---	9.0	7.0	6.5	5.5	6.5	5.0	6.0	5.0
10			---	---	9.5	6.0	6.0	5.5	6.5	5.0	6.0	4.5
11			---	---	9.5	7.0	6.0	5.5	7.0	5.0	6.0	5.0
12			---	---	9.0	7.5	6.0	5.5	7.0	5.0	5.5	5.0
13			---	---	8.5	7.0	6.0	5.5	7.0	5.0	5.0	4.5
14			---	---	9.0	6.0	6.0	5.5	7.0	5.5	5.0	4.5
15			---	---	8.5	6.5	6.5	6.0	6.5	5.5	5.5	4.5
16			---	---	6.5	6.0	6.5	6.5	6.5	5.5	6.0	4.5
17			8.0	---	7.0	5.5	6.5	6.0	6.5	5.5	6.0	5.0
18			7.5	4.5	8.0	6.0	6.0	5.5	5.5	5.0	5.0	5.0
19			8.0	4.0	8.5	7.0	5.5	5.5	5.0	5.0	5.0	5.0
20			7.5	4.5	8.5	7.5	5.5	5.0	5.5	5.0	5.5	4.5
21			7.0	4.5	8.5	7.0	5.5	5.5	5.5	5.0	5.0	4.0
22			6.5	4.5	8.5	7.0	5.5	5.0	5.5	5.0	5.0	3.5
23			8.5	3.5	8.0	6.5	6.5	5.5	6.5	5.5	5.0	4.0
24			8.5	6.0	6.5	6.0	6.5	6.0	6.5	5.5	5.0	4.5
25			7.5	5.5	7.0	6.5	6.0	5.5	5.5	5.5	5.5	5.0
26			7.5	5.5	7.0	6.5	6.5	5.5	6.5	5.0	6.0	5.0
27			8.0	5.5	6.5	6.0	7.0	5.5	6.0	4.5	---	4.5
28			9.5	5.0	6.0	5.5	7.0	6.0	5.5	4.0	---	---
29			8.0	6.5	6.5	6.0	6.5	5.5	5.5	4.5	---	---
30			8.0	5.5	7.0	6.0	6.5	5.0	5.5	4.0	---	---
31			10.5	5.5	---	---	6.5	6.0	5.0	4.5	---	---
MONTH			10.5		10.5	5.5	7.0	5.0	7.5	4.0	6.5	3.5
YEAR	10.5											

15292700 TALKEETNA RIVER NEAR TALKEETNA
(Hydrologic benchmark station)

LOCATION.--Lat 62°20'49", long 150°01'01", in NE¼ sec.16, T.26 N., R.4 W., Matanuska-Susitna Borough, Hydrologic Unit 19050002, on left bank 1.7 mi downstream from Chunilna Creek, 3.5 mi northeast of Talkeetna, and about 5 mi above mouth.

DRAINAGE AREA.--2,006 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1964 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 400 ft, from topographic map.

REMARKS.--Water-discharge records good except those for period of no gage-height record, Oct. 15 to May 31, which are poor.

AVERAGE DISCHARGE.--20 years, 4,034 ft³/s, 27.31 in/yr, 2,923,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 67,400 ft³/s Aug. 10, 1971, gage height, 16.35 ft; minimum daily, about 260 ft³/s Feb. 27 to Mar. 20, 1982.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 34,200 ft³/s Aug. 25, gage height, 11.67 ft; minimum daily, about 550 ft³/s Apr. 1-26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6160	1700	850	700	650	600	550	680	4200	8370	9500	5870
2	5310	1700	850	700	650	600	550	760	5190	9070	9080	5370
3	4730	1600	850	700	650	600	550	840	6240	8160	9220	5040
4	4200	1500	850	700	650	600	550	920	7090	7850	9460	4760
5	3800	1400	850	700	650	600	550	1000	7580	8090	10400	4500
6	3500	1300	800	700	650	600	550	1050	7850	8150	10500	4440
7	3200	1200	800	700	650	600	550	1300	7350	8210	10000	4400
8	3000	1200	800	700	650	600	550	1500	6980	7620	9800	4400
9	3000	1100	800	700	650	600	550	1700	8230	7050	11500	4500
10	4000	1100	800	700	650	600	550	1900	8000	8200	11600	4100
11	5840	1100	800	700	650	600	550	2200	7730	9640	9850	3900
12	6230	1100	800	700	650	600	550	2600	8120	8580	9090	3700
13	5300	1000	800	700	650	600	550	3000	10100	9170	7740	3600
14	4500	1000	800	700	650	600	550	3500	10600	9990	7110	3500
15	4300	1000	750	700	650	600	550	4000	10400	8320	6800	3400
16	3000	1000	750	700	600	600	550	4500	12700	7740	6860	3300
17	2800	950	750	700	600	600	550	5000	15000	7550	6720	3300
18	2600	950	750	700	600	600	550	5600	12700	7080	6830	3300
19	2600	950	750	700	600	600	550	6200	11800	6860	7780	3500
20	2600	950	750	700	600	600	550	6600	11800	7540	7260	3800
21	2400	950	750	700	600	600	550	7000	12100	8800	6830	4200
22	2200	950	750	700	600	600	550	7200	11700	8400	6410	3800
23	2200	950	750	700	600	600	550	7400	11300	7920	7720	3500
24	2000	900	750	700	600	600	550	7400	9580	7970	10500	3200
25	2000	900	750	700	600	600	550	7400	9090	9240	24200	3000
26	1800	900	750	650	600	600	550	7000	8980	13700	22900	2900
27	1700	900	750	650	600	600	560	6400	10600	12900	13600	2800
28	1600	900	750	650	600	600	580	5800	9670	11400	10600	2700
29	1600	900	750	650	600	600	600	5100	8750	11100	8760	2800
30	1700	850	750	650	---	600	620	4500	8400	11000	7470	2900
31	1800	---	750	650	---	600	---	4200	---	10100	6540	---
TOTAL	101670	32900	24200	21400	18150	18600	16660	124250	279830	275770	302630	114480
MEAN	3280	1097	781	690	626	600	555	4008	9328	8896	9762	3816
MAX	6230	1700	850	700	650	600	620	7400	15000	13700	24200	5870
MIN	1600	850	750	650	600	600	550	680	4200	6860	6410	2700
CFSM	1.64	.55	.39	.34	.31	.30	.28	2.00	4.65	4.44	4.87	1.90
IN.	1.89	.61	.45	.40	.34	.34	.31	2.30	5.19	5.11	5.61	2.12
AC-FT	201700	65260	48000	42450	36000	36890	33050	246400	555000	547000	600300	227100

CAL YR 1983 TOTAL 1310970 MEAN 3592 MAX 15900 MIN 540 CFSM 1.79 IN 24.31 AC-FT 2600000
WTR YR 1984 TOTAL 1330540 MEAN 3635 MAX 24200 MIN 550 CFSM 1.81 IN 24.67 AC-FT 2639000

15292700 TALKEETNA RIVER NEAR TALKEETNA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1954, 1966 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK) (00009)	SPE- CIFIC CON- DUCT- ANCE (UMHOS) (00095)	PH (STAND- ARD UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)
OCT								
04...	1201	32.0	132	7.9	1.5	--	--	--
04...	1202	72.0	127	8.1	1.5	761	15.3	110
04...	1203	122	119	8.0	1.5	761	14.3	103
04...	1204	172	114	8.1	1.5	761	14.9	107
04...	1205	252	104	8.1	2.0	--	--	--
MAR								
07...	1115	50.0	207	--	.0	--	--	--
07...	1116	80.0	201	--	.0	--	--	--
07...	1117	100	197	--	.0	--	--	--
07...	1118	150	192	--	.0	--	--	--
07...	1119	220	183	--	.0	--	--	--
MAY								
31...	1525	34.0	116	7.3	8.0	750	12.2	105
31...	1526	74.0	110	7.3	8.0	750	12.3	106
31...	1527	119	105	7.4	8.0	750	12.1	104
31...	1528	169	99	7.4	8.0	750	12.0	102
31...	1529	244	89	7.3	8.0	750	11.8	101
JUL								
26...	1225	35.0	72	7.3	9.0	755	11.0	96
26...	1226	85.0	72	7.3	9.0	755	11.0	96
26...	1227	140	72	7.3	9.0	755	11.0	96
26...	1228	200	71	7.2	9.0	755	10.8	95
26...	1229	265	68	7.3	9.5	755	10.6	93

DATE	TIME	STREAM WIDTH (FT) (00004)	STREAM- FLOW, INSTAN- TANEOUS (CFS) (00061)	TUR- BID- ITY (NTU) (00076)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	HARD- NESS (MG/L AS CACO3) (00900)	HARD- NESS, NONCAR- BONATE (MG/L CACO3) (00902)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)
OCT									
04...	1207	324	4250	1.3	--	--	48	10	16
MAR									
07...	1130	315	590	2.6	K1	<1	64	28	21
MAY									
31...	1530	324	4170	.80	<1	<1	37	7	12
JUL									
26...	1230	355	13200	140	--	--	33	0	11

DATE	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	ALKA- LINITY, CARBON- ATE IT-FLD (MG/L - CACO3) (99430)	BICAR- BONATE IT-FLD (MG/L AS HCO3) (99440)	CAR- BONATE IT-FLD (MG/L AS CO3) (99445)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)
OCT									
04...	2.0	6.0	1.1	39	47	.000	11	7.6	<.10
MAR									
07...	2.7	12	1.4	36	44	.000	17	23	<.10
MAY									
31...	1.6	5.9	1.0	--	--	--	9.2	8.4	<.10
JUL									
26...	1.3	3.3	.80	34	42	.000	7.4	2.8	<.10

K NON-IDEAL COLONY COUNT

15292700 TALKEETNA RIVER NEAR TALKEETNA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS- PHORUS, TOTAL (MG/L AS P) (00665)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P) (00671)
OCT 04...	8.1	79	75	.33	.040	.50	.030	.030	<.010
MAR 07...	8.9	116	110	.43	.030	<.20	.010	.010	.020
MAY 31...	7.2	59	63	.40	<.010	.20	.010	.010	.010
JUL 26...	5.8	41	54	<.10	.110	.40	.350	<.010	.010

DATE	TIME	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	BERYL- LIUM, DIS- SOLVED (UG/L AS BE) (01010)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR) (01030)	COBALT, DIS- SOLVED (UG/L AS CO) (01035)	COPPER, DIS- SOLVED (UG/L AS CU) (01040)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, DIS- SOLVED (UG/L AS PB) (01049)
MAR 07...	1130	<10	<1	19	<.5	<1	<1	<3	2	13	3
JUL 26...	1230	280	<1	18	<1.0	<1	<1	<3	4	310	2

DATE	LITHIUM DIS- SOLVED (UG/L AS LI) (01130)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NICKEL, DIS- SOLVED (UG/L AS NI) (01065)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILVER, DIS- SOLVED (UG/L AS AG) (01075)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)	VANA- DIUM, DIS- SOLVED (UG/L AS V) (01085)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)
MAR 07...	18	3	<.1	<10	<1	<1	<1	140	<6	9
JUL 26...	16	11	<.1	<10	7	<1	<1	57	<6	33

DATE	TIME	GROSS ALPHA, DIS- SOLVED (UG/L AS U-NAT) (80030)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT) (80040)	GROSS BETA, DIS- SOLVED (PCI/L AS CS-137) (03515)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137) (03516)	GROSS BETA, DIS- SOLVED (PCI/L AS SR/ YT-90) (80050)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/ YT-90) (80060)	RADIUM 226, DIS- SOLVED, RADON METHOD (PCI/L) (09511)	URANIUM DIS- SOLVED, EXTRAC- TION (UG/L) (80020)
JUL 26...	1230	<1.1	<12	.8	10	.7	8.9	.06	.11

DATE	TIME	STREAM WIDTH (FT) (00004)	STREAM- FLOW, INSTAN- TANEOUS (CFS) (00061)	SEDI- MENT, SUS- PENDED (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)	SED. SUSP. FALL DIAM. % FINER THAN .002 MM (70337)	SED. SUSP. FALL DIAM. % FINER THAN .004 MM (70338)	SED. SUSP. FALL DIAM. % FINER THAN .008 MM (70339)
OCT 04...	1207	324	4250	41	470	--	--	--
MAR 07...	1130	315	590	7	11	--	--	--
MAY 15...	1630	--	2440	79	520	--	--	--
31...	1530	324	4170	46	518	--	--	--
JUN 13...	1610	--	12000	1310	42400	8	9	12
28...	0915	--	8370	290	6550	10	17	--
JUL 26...	1230	355	13200	764	27200	16	19	25
28...	1800	--	11200	396	12000	--	--	--
AUG 16...	1650	--	6640	438	7850	14	19	27
26...	1115	--	22700	916	56100	5	7	10
SEP 26...	2000	--	2900	15	117	--	--	--

SOUTH-CENTRAL ALASKA

15292700 TALKEETNA RIVER NEAR TALKEETNA--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	SED. SUSP. FALL DIAM. % FINER THAN .016 MM (70340)	SED. SUSP. FALL DIAM. % FINER THAN .031 MM (70341)	SED. SUSP. FALL DIAM. % FINER THAN .062 MM (70342)	SED. SUSP. FALL DIAM. % FINER THAN .125 MM (70343)	SED. SUSP. FALL DIAM. % FINER THAN .250 MM (70344)	SED. SUSP. FALL DIAM. % FINER THAN .500 MM (70345)	SED. SUSP. FALL DIAM. % FINER THAN 1.00 MM (70346)
OCT							
04...	--	--	*17	--	--	--	--
MAR							
07...	--	--	*72	--	--	--	--
MAY							
15...	--	--	31	53	90	100	--
31...	--	--	15	28	53	100	--
JUN							
13...	19	31	46	71	89	99	100
28...	27	--	42	53	79	98	100
JUL							
26...	36	50	61	76	92	99	100
28...	--	--	44	53	80	99	100
AUG							
16...	34	44	56	67	83	98	100
26...	16	24	36	68	92	99	100
SEP							
26...	--	--	36	52	79	100	--

* SIEVE ANALYSES

15292780 SUSITNA RIVER AT SUNSHINE

LOCATION.--Lat 62°10'42", long 150°10'30", in SE¼SW¼ sec.10, T.24 N., R.5 W., Matanuska-Susitna Borough, Hydrologic Unit 19050002, on left bank 100 ft upstream from Parks Highway bridge, 1.6 mi downstream from Sunshine Creek, and 3.2 mi northwest of Sunshine.

DRAINAGE AREA.--11,100 mi^2, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1981 to current year.

REVISED RECORDS.--WDR AK-83-1: 1982 (M).

GAGE.--Water-stage recorder. Altitude of gage is 270 ft, from topographic map. Prior to May 28, 1982 at site 100 ft upstream on right bank at same datum.

REMARKS.--Water-discharge records good except those for Nov. 8 to May 4, which are poor. Satellite telemetry at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 150,000 ft^3/s July 11, 1981; minimum daily, 2,700 ft^3/s Feb. 23 to Mar. 20, 1982.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Aug. 10, 1971 had a peak discharge of 200,000 ft^3/s, gage height, about 62.0 ft, datum then in use for National Weather Service gage on downstream side of bridge near left bank.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 114,000 ft^3/s Aug. 26, gage height, 12.75 ft; minimum daily, about 4,400 ft^3/s Mar. 16 to Apr. 21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43300	12800	5800	5000	4600	4600	4400	6000	32000	62800	60300	35000
2	39800	12600	5800	5000	4600	4600	4400	6200	33000	62500	56700	32000
3	33400	12800	5800	5000	4600	4600	4400	6600	34000	61000	54700	29000
4	28500	12200	5800	5000	4600	4600	4400	6800	37700	58600	53900	27000
5	25200	11800	5800	5000	4600	4600	4400	7160	41800	59800	57700	25400
6	24000	10800	5800	5000	4600	4600	4400	7650	42900	60400	63600	25300
7	21700	9400	5800	5000	4600	4600	4400	8290	45200	58800	66700	25900
8	19200	9200	5800	5000	4600	4600	4400	9660	46400	57100	65900	26200
9	18600	8800	5800	5000	4600	4600	4400	12300	48200	55400	68300	25900
10	19200	8600	5800	5000	4600	4600	4400	15200	49400	52500	66400	24700
11	24300	8200	5600	5000	4600	4600	4400	17800	48900	55100	60000	23500
12	31600	8000	5600	5000	4600	4600	4400	19000	49200	54100	52900	22700
13	30500	8000	5600	5000	4600	4600	4400	19000	54200	52400	48100	22700
14	27200	7800	5600	5000	4600	4600	4400	19000	67800	52400	48000	24000
15	23800	7600	5600	5000	4600	4600	4400	23000	67700	48900	46000	22300
16	21500	7400	5600	4800	4600	4400	4400	26000	75100	47900	44000	21000
17	20000	7200	5600	4800	4600	4400	4400	28600	93000	49600	42500	20400
18	18800	7000	5600	4800	4600	4400	4400	33200	81800	51200	45400	20900
19	18300	7000	5600	4800	4600	4400	4400	38300	71200	51600	57200	28400
20	17600	7000	5600	4800	4600	4400	4400	42100	69100	52600	63300	30500
21	16900	6600	5400	4800	4600	4400	4400	44500	70500	57700	61800	28200
22	16200	6600	5400	4800	4600	4400	4500	47000	72000	57800	54300	25000
23	15500	6600	5400	4800	4600	4400	4500	47800	73500	56100	54600	22200
24	14900	6600	5400	4800	4600	4400	4600	47300	70100	55200	64800	20400
25	13900	6600	5400	4800	4600	4400	4700	47100	67100	56100	93300	19600
26	13000	6200	5200	4800	4600	4400	4800	46300	64800	76200	104000	19000
27	12900	6200	5200	4800	4600	4400	4900	41200	67200	84500	79700	18300
28	12900	6200	5200	4800	4600	4400	5200	35100	70900	77700	59900	17700
29	12900	6200	5200	4800	4600	4400	5400	32400	68200	71900	47600	17400
30	12800	6200	5200	4800	---	4400	5600	32000	65400	70500	40800	17800
31	13000	---	5200	4800	---	4400	---	31000	---	64900	38000	---
TOTAL	661400	248200	172200	151800	133400	139400	136600	803560	1778300	1833300	1820400	718400
MEAN	21340	8273	5555	4897	4600	4497	4553	25920	59280	59140	58720	23950
MAX	43300	12800	5800	5000	4600	4600	5600	47800	93000	84500	104000	35000
MIN	12800	6200	5200	4800	4600	4400	4400	6000	32000	47900	38000	17400
CFSM	1.92	.75	.50	.44	.41	.41	.41	2.34	5.34	5.33	5.29	2.16
IN.	2.22	.83	.58	.51	.45	.47	.46	2.69	5.96	6.14	6.10	2.41
AC-FT	1312000	492300	341600	301100	264600	276500	270900	1594000	3527000	3636000	3611000	1425000

CAL YR 1983 TOTAL 8818900 MEAN 24160 MAX 100000 MIN 3100 CFSM 2.18 IN 29.56 AC-FT 17490000
WTR YR 1984 TOTAL 8596960 MEAN 23490 MAX 104000 MIN 4400 CFSM 2.12 IN 28.81 AC-FT 17050000

NOTE.--No gage-height record Dec. 12 to Apr. 30.

15292780 SUSITNA RIVER AT SUNSHINE--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1971, 1975, 1977, and 1981 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: MAY 1981 to current year (seasonal).

INSTRUMENTATION.--Temperature recorder since May 1981.

REMARKS.--Periods of no record due to probe out of water. Recorded temperatures were found to be within 1.3°C of mean stream temperature based on seven cross-sectional measurements, with a maximum variation of 2.5°C observed within the cross section. Several other field observations of water temperature were made during the year. Record is fair.

EXTREMES OUTSIDE PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Minimum, 0.0°C most days during winter periods.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum recorded, 12.5°C July 28, 1983 and June 21, 22, 1984.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum recorded, 12.5°C June 21, 22.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK) (00009)	SPE- CIFIC CON- DUCT- ANCE (UMHOS) (00095)	PH (STAND- ARD UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)
OCT								
04...	1421	60.0	115	8.3	2.0	764	14.6	106
04...	1422	135	114	8.2	2.0	764	14.0	101
04...	1423	210	114	8.1	2.0	764	14.4	104
04...	1424	310	113	8.0	2.0	764	13.9	100
04...	1425	410	112	7.5	2.0	764	13.6	98
MAY								
18...	1741	95.0	83	7.2	5.0	749	10.8	86
18...	1742	170	81	7.3	5.5	749	10.8	87
18...	1743	220	81	7.3	5.5	749	12.4	100
18...	1744	320	83	7.3	5.5	749	11.4	92
18...	1745	420	83	7.3	5.5	749	12.7	103
JUN								
14...	0945	95.0	98	7.3	8.0	749	11.2	97
14...	0946	195	91	7.5	8.5	749	11.3	98
14...	0947	295	89	7.6	8.5	749	11.3	98
14...	0948	395	90	7.9	8.0	749	11.3	98
14...	0949	645	97	8.1	8.0	749	11.5	99
JUL								
19...	0655	67.0	111	7.8	9.0	756	10.7	93
19...	0656	162	111	7.9	8.5	756	10.7	92
19...	0657	217	110	7.9	8.5	756	10.8	93
19...	0658	317	110	7.9	8.5	756	10.9	94
19...	0659	417	111	7.9	7.5	756	11.0	93
AUG								
16...	1255	67.0	108	7.5	11.5	753	10.7	99
16...	1256	142	103	7.6	10.0	753	11.8	106
16...	1257	217	103	7.6	9.5	753	11.7	104
16...	1258	317	103	7.6	9.5	753	11.8	104
16...	1259	442	101	7.7	9.0	753	12.9	113
SEP								
21...	1330	60.0	130	7.8	5.5	763	11.0	87
21...	1331	135	127	7.9	5.0	763	11.4	90
21...	1332	210	132	7.9	5.0	763	11.8	93
21...	1333	285	128	7.9	5.0	763	11.2	88
21...	1334	385	125	7.9	5.0	763	11.7	91

15292780 SUSITNA RIVER AT SUNSHINE--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM WIDTH (FT) (00004)	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	TUR-BID-ITY (NTU) (00076)	HARD-NESS (MG/L AS CACO3) (00900)	HARD-NESS, NONCAR-BONATE (MG/L CACO3) (00902)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY, CARBON-ATE IT-FLD (MG/L - CACO3) (99430)
OCT 04...	1430	625	29300	23	56	13	18	2.7	4.1	1.2	43
MAY 18...	1800	645	34900	55	46	11	15	2.0	3.6	1.2	34
JUN 14...	1000	950	68300	130	37	5	12	1.8	2.8	1.0	*32
JUL 19...	0700	652	49900	180	52	10	17	2.4	3.0	1.6	43
AUG 16...	1300	942	45400	150	54	15	18	2.3	3.0	1.6	*40
SEP 21...	1335	595	29600	45	62	14	20	2.9	4.4	1.8	48

DATE	BICAR-BONATE IT-FLD (MG/L AS HCO3) (99440)	CAR-BONATE IT-FLD (MG/L AS CO3) (99445)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)
OCT 04...	53	.000	15	5.1	<.10	7.3	80	80	--	.29	--
MAY 18...	42	.000	11	4.9	.10	6.1	52	65	--	.29	--
JUN 14...	--	--	12	2.9	<.10	5.4	60	57	<.10	<.10	.050
JUL 19...	52	.000	16	3.0	.10	5.0	63	74	<.10	<.10	.070
AUG 16...	--	--	14	2.8	.10	4.3	80	70	--	<.10	--
SEP 21...	59	--	16	5.8	.10	6.9	85	87	--	<.10	--

DATE	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, ORGANIC TOTAL (MG/L AS N) (00605)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P) (00671)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC SUS-PENDED TOTAL (MG/L AS C) (00689)
OCT 04...	.050	--	--	.60	--	.070	.020	<.010	2.7	--	--
MAY 18...	.020	--	--	1.5	--	.180	.010	.020	6.7	--	--
JUN 14...	.010	.35	--	.40	<.20	.070	.010	--	--	1.1	1.1
JUL 19...	.010	.33	.29	.40	.30	--	.010	--	--	6.1	.50
AUG 16...	.050	--	--	1.1	--	.140	<.010	.020	--	--	--
SEP 21...	<.010	--	--	<.20	--	.090	<.010	.010	--	--	--

DATE	TIME	ARSENIC TOTAL (UG/L AS AS) (01002)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO) (01037)
JUN 14...	1000	7	<1	100	19	<1	<1	40	<10	6
JUL 19...	0700	9	1	100	26	<1	<1	30	<10	5

* LABORATORY VALUE

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15292780 SUSITNA RIVER AT SUNSHINE--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)
JUN										
14...	<1	35	3	20000	81	<1	<1	430	8	.9
JUL										
19...	<1	45	3	19000	230	40	<1	360	9	.1

DATE	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)
JUN									
14...	<.1	38	<1	<1	<1	<1	<1	90	16
JUL									
19...	<.1	28	<1	<1	<1	<1	<1	120	7

DATE	TIME	STREAM WIDTH (FT) (00004)	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SED. SUSP. FALL DIAM. % FINER THAN .002 MM (70337)	SED. SUSP. FALL DIAM. % FINER THAN .004 MM (70338)	SED. SUSP. FALL DIAM. % FINER THAN .008 MM (70339)
OCT								
04...	1505	--	28000	171	12900	12	15	--
MAY								
16...	1455	--	24600	440	29200	10	13	--
18...	1741	--	--	586	--	--	--	--
18...	1742	--	--	599	--	--	--	--
18...	1743	--	--	484	--	--	--	--
18...	1744	--	--	427	--	--	--	--
18...	1745	--	--	394	--	--	--	--
18...	1800	645	34900	467	44000	14	15	--
JUN								
14...	1000	950	68300	999	184000	15	17	20
JUL								
13...	1115	--	52200	638	89900	21	31	37
19...	0700	652	49900	569	76700	24	32	45
28...	1500	--	77700	960	201000	27	31	36
AUG								
14...	1425	--	45800	748	92500	22	27	40
SEP								
11...	1505	--	23300	168	10600	23	29	--
21...	1335	595	29600	284	22700	13	16	--
28...	1120	--	17800	88	4230	22	27	--

DATE	SED. SUSP. FALL DIAM. % FINER THAN .016 MM (70340)	SED. SUSP. FALL DIAM. % FINER THAN .031 MM (70341)	SED. SUSP. FALL DIAM. % FINER THAN .062 MM (70342)	SED. SUSP. FALL DIAM. % FINER THAN .125 MM (70343)	SED. SUSP. FALL DIAM. % FINER THAN .250 MM (70344)	SED. SUSP. FALL DIAM. % FINER THAN .500 MM (70345)	SED. SUSP. FALL DIAM. % FINER THAN 1.00 MM (70346)
OCT							
04...	19	--	29	37	68	99	100
MAY							
16...	22	--	43	56	72	99	100
18...	--	--	*42	--	--	--	--
18...	--	--	*40	--	--	--	--
18...	--	--	*51	--	--	--	--
18...	--	--	*58	--	--	--	--
18...	--	--	*66	--	--	--	--
18...	27	--	51	63	85	100	--

* SIEVE ANALYSES

SOUTH-CENTRAL ALASKA

15292780 SUSITNA RIVER AT SUNSHINE--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	SED. SUSP. FALL DIAM. % FINER THAN .016 MM (70340)	SED. SUSP. FALL DIAM. % FINER THAN .031 MM (70341)	SED. SUSP. FALL DIAM. % FINER THAN .062 MM (70342)	SED. SUSP. FALL DIAM. % FINER THAN .125 MM (70343)	SED. SUSP. FALL DIAM. % FINER THAN .250 MM (70344)	SED. SUSP. FALL DIAM. % FINER THAN .500 MM (70345)	SED. SUSP. FALL DIAM. % FINER THAN 1.00 MM (70346)
JUN							
14...	26	34	48	70	87	99	100
JUL							
13...	47	55	60	66	82	98	100
19...	54	65	69	75	87	99	100
28...	45	54	64	74	87	96	99
AUG							
14...	50	57	63	70	84	100	--
SEP							
11...	46	--	57	63	76	100	--
21...	25	--	35	41	63	96	100
28...	34	--	46	51	67	100	--

DATE	TIME	SAMPLE LOC-ATION CROSS SECTION (FT FM L BANK) (00009)	BED MAT. SIEVE DIAM. % FINER THAN .250 MM (80166)	BED MAT. SIEVE DIAM. % FINER THAN .500 MM (80167)	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM (80168)	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM (80169)	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM (80170)	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM (80171)	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM (80172)	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM (80173)	BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM (80174)	BED MAT. SIEVE DIAM % FINER THAN 128 MM (80175)
OCT												
04...	1530	200	0	9	20	23	24	32	45	57	100	--
04...	1540	250	0	2	6	9	14	31	61	84	100	--
04...	1550	300	--	0	1	1	2	6	14	28	41	100
04...	1600	350	--	--	0	1	1	1	5	18	100	--
04...	1610	400	--	--	--	--	--	--	0	5	28	100

TEMPERATURE, WATER (DEG. C), OCTOBER 1983 TO SEPTEMBER 1984

DAY	MAX	MIN
OCTOBER		
1	4.0	3.5
2	4.0	3.0
3	3.5	2.0
4	2.5	1.5
5	2.0	1.5
17	---	.0

SOUTH-CENTRAL ALASKA

15292780 SUSITNA RIVER AT SUNSHINE--Continued

TEMPERATURE, WATER (DEG. C), OCTOBER 1983 TO SEPTEMBER 1984

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1			---	---	10.0	8.5	11.0	10.0	8.5	8.0	7.0	5.0
2			---	---	10.5	8.5	10.5	8.5	8.5	8.0	8.0	6.0
3			---	---	10.0	9.0	10.0	8.0	9.5	8.5	8.0	6.5
4			---	---	11.0	9.0	11.5	9.5	10.5	8.5	8.5	6.5
5			---	---	10.5	9.0	11.5	10.0	10.5	8.5	9.0	7.0
6			---	---	10.0	7.5	10.5	9.0	10.0	7.5	9.0	7.5
7			---	---	8.5	6.5	11.0	8.0	10.0	8.5	9.0	8.0
8			---	---	10.0	7.5	10.5	8.5	10.0	8.0	9.0	7.5
9			---	---	10.0	8.5	9.5	8.0	9.5	7.0	8.5	7.5
10			---	---	10.5	8.0	9.5	8.5	9.0	7.0	9.0	6.5
11			---	---	10.5	9.0	10.0	8.0	10.0	8.0	---	---
12			---	---	11.5	10.0	10.0	9.0	9.5	8.0	---	---
13			---	---	10.5	8.5	10.0	8.5	9.5	8.0	---	---
14			---	---	9.5	7.5	10.5	9.0	9.5	8.0	---	---
15			---	---	9.0	7.5	11.0	9.5	9.5	8.0	---	---
16			---	---	---	6.5	11.0	9.5	9.5	8.5	---	---
17			---	---	8.5	7.0	10.0	8.5	9.5	8.0	---	---
18			---	---	10.5	8.5	8.5	7.5	8.0	7.0	---	---
19			---	---	12.0	10.0	7.5	7.0	7.0	6.5	---	---
20			---	---	12.0	11.0	7.5	7.0	6.5	6.0	6.5	5.0
21			6.5	---	12.5	10.5	8.5	7.5	7.0	6.5	6.0	5.0
22			6.0	5.5	12.5	11.0	8.5	7.5	7.5	7.0	---	---
23			7.0	4.0	12.0	9.5	11.0	8.0	8.5	7.5	---	---
24			8.0	7.0	10.5	8.5	11.0	9.5	8.5	6.5	---	---
25			7.5	5.5	11.5	9.5	9.5	8.0	6.5	6.5	---	---
26			7.0	6.0	11.0	9.0	8.5	7.0	7.5	6.0	---	---
27			7.5	6.0	9.0	8.5	9.0	8.0	6.5	5.0	---	---
28			8.5	6.0	9.5	8.0	9.5	8.5	6.5	5.0	---	---
29			8.0	7.0	10.5	9.0	8.5	7.5	6.5	5.0	---	---
30			7.5	6.5	11.0	9.0	9.0	7.5	6.0	5.0	---	---
31			9.0	7.0	---	---	9.0	8.0	5.5	5.0	---	---
MONTH			9.0		12.5	6.5	11.5	7.0	10.5	5.0		
YEAR	12.5	.0										

SOUTH-CENTRAL ALASKA

15294005 WILLOW CREEK NEAR WILLOW

LOCATION.--Lat 61°46'51", long 149°53'04", in NW¼SE¼ sec.31, T.20 N., R.3 W., Matanuska-Susitna Borough, Hydrologic Unit 19050002, on right bank 0.9 mi downstream from unnamed tributary, 5.5 mi northeast of Willow, and 6.7 mi upstream from Deception Creek.

DRAINAGE AREA.--166 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1978 to current year.

REVISED RECORDS.--WDR AK-80-1: 1979 (M).

GAGE.--Water-stage recorder. Altitude of gage is 350 ft, from topographic map. Prior to Apr. 2, 1981 at site 0.2 mi upstream at different datum.

REMARKS.--Water-discharge records fair except those for period of no gage-height record, Oct. 12 to Mar. 13, which are poor.

AVERAGE DISCHARGE.--6 years, 403 ft^3/s, 32.97 in/yr, 292,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,450 ft^3/s July 28, 1980, gage height, 8.80 ft, site and datum then in use; minimum daily, about 33 ft^3/s Mar. 9-30, 1982.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,300 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Oct. 11	1900	2,300	a5.32	Aug. 25	1700	*3,720	*6.22

a May have been higher on same day.

Minimum daily discharge, about 68 ft^3/s Apr. 1-20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984 MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	824	250	120	110	80	84	68	142	516	547	482	547
2	705	250	120	110	80	82	68	166	627	589	436	534
3	608	240	120	110	80	80	68	149	774	529	426	510
4	550	230	120	110	80	77	68	142	867	486	415	502
5	518	220	120	110	80	75	68	142	916	504	384	470
6	709	210	120	110	80	74	68	140	933	481	364	430
7	514	200	120	110	80	74	68	158	845	442	350	400
8	444	200	120	110	80	72	68	201	823	436	341	370
9	471	190	120	100	80	72	68	273	875	587	419	340
10	1090	190	120	100	80	70	68	313	823	724	389	310
11	2230	180	120	98	80	70	68	318	814	623	374	290
12	1400	180	120	96	80	70	68	291	829	596	327	280
13	1050	170	120	94	80	70	68	304	908	738	309	260
14	900	170	120	94	80	70	68	345	807	680	295	250
15	800	160	120	94	82	70	68	379	949	603	278	240
16	700	160	120	94	84	70	68	384	1030	535	274	230
17	640	150	120	94	86	70	68	435	983	522	262	270
18	570	150	120	94	90	70	68	551	983	486	266	450
19	520	150	120	92	90	70	68	589	983	516	349	660
20	490	140	120	90	90	70	68	615	983	569	301	540
21	460	140	120	88	90	70	70	675	967	668	270	430
22	430	140	120	88	90	70	72	629	925	578	270	410
23	400	140	120	86	90	70	74	578	869	517	404	380
24	380	130	120	84	90	70	76	668	792	522	497	360
25	360	130	120	84	90	70	80	597	754	716	2440	320
26	340	130	110	82	90	70	84	552	684	768	1690	310
27	320	130	110	80	90	70	90	516	725	677	1110	310
28	310	130	110	80	86	70	100	465	629	590	886	300
29	290	120	110	80	85	70	110	475	628	596	755	330
30	280	120	110	80	---	70	120	522	602	564	677	370
31	270	---	110	80	---	70	---	492	---	552	610	---
TOTAL	19573	5100	3660	2932	2443	2230	2236	12206	24843	17941	16650	11403
MEAN	631	170	118	94.6	84.2	71.9	74.5	394	828	579	537	380
MAX	2230	250	120	110	90	84	120	675	1030	768	2440	660
MIN	270	120	110	80	80	70	68	140	516	436	262	230
CFSM	3.80	1.02	.71	.57	.51	.43	.45	2.37	4.99	3.49	3.24	2.29
IN.	4.39	1.14	.82	.66	.55	.50	.50	2.74	5.57	4.02	3.73	2.56
AC-FT	38820	10120	7260	5820	4850	4420	4440	24210	49280	35590	33030	22620

CAL YR 1983 TOTAL 134877 MEAN 370 MAX 2230 MIN 60 CFSM 2.23 IN 30.23 AC-FT 267500
WTR YR 1984 TOTAL 121217 MEAN 331 MAX 2440 MIN 68 CFSM 1.99 IN 27.16 AC-FT 240400

15294005 WILLOW CREEK NEAR WILLOW--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water year 1979 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: October 1978 to current year (seasonal, fragmentary).

INSTRUMENTATION.--Temperature recorder since October 1978.

REMARKS.--Periods of no record are due to equipment malfunction or probe out of water. Recorded temperatures were found to be within 0.5°C of mean stream temperature based on two cross-sectional measurements, with no variation observed within the cross section. Several other field observations of water temperature were made during the water year.

EXTREMES OUTSIDE PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Minimum, 0.0°C most days during winter period.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum recorded, 16.0°C July 28, 1983.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum recorded, 15.0°C July 4, 5, and Aug. 4, 7.

TEMPERATURE, WATER (DEG. C), APRIL TO SEPTEMBER 1984

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---		3.0	1.0	10.5	5.0	11.0	8.5	11.5	9.5	8.5	5.0
2	---		2.0	1.0	11.0	4.5	10.0	7.5	12.0	10.0	9.0	5.0
3	---		3.0	1.0	10.5	4.5	10.5	7.5	11.5	10.5	9.5	5.0
4	---		3.0	1.0	10.5	4.5	15.0	8.0	15.0	10.5	9.5	5.5
5	---		3.5	1.5	9.5	4.0	15.0	10.0	14.5	11.5	---	---
6	---		3.5	1.5	7.5	4.5	14.0	10.5	14.0	11.0	---	---
7	---		4.5	1.0	8.0	4.0	14.5	9.5	15.0	11.0	---	---
8	---		4.5	1.0	9.5	5.0	13.5	10.5	14.5	12.0	---	---
9	---		4.5	1.0	8.0	5.5	10.5	9.0	14.5	11.5	---	---
10	---		4.5	1.0	9.0	5.0	11.5	8.5	13.5	10.5	---	---
11	---		5.0	1.0	9.0	5.0	11.5	8.5	13.5	10.5	---	---
12	---		6.0	1.5	9.5	5.5	10.5	8.0	13.5	9.5	---	---
13	---		7.0	2.5	8.0	6.0	11.0	8.5	13.5	9.5	---	---
14	---		7.5	2.5	10.0	5.0	10.5	8.5	14.0	10.0	---	---
15	---		7.5	2.5	8.0	5.5	12.5	8.0	14.5	10.5	---	---
16	---		8.5	3.0	7.0	5.5	11.5	9.0	14.5	11.0	---	---
17	---		9.5	3.5	9.5	5.5	10.0	8.5	14.5	12.5	---	---
18	---		8.0	4.5	12.5	5.5	9.0	7.5	13.0	11.0	---	---
19	---		7.5	4.0	12.5	6.0	9.5	8.0	11.0	10.0	---	---
20	---		8.5	3.0	13.0	6.0	9.0	8.0	11.0	10.0	---	---
21	---		7.5	4.5	13.0	6.5	11.5	8.0	10.5	9.5	6.0	---
22	---		6.0	3.5	13.5	7.0	11.5	9.5	11.0	9.5	6.0	3.5
23	---		9.5	3.0	12.0	7.0	12.5	10.0	11.0	10.0	6.0	4.5
24	---		7.0	4.5	13.0	7.0	12.5	10.5	10.5	9.5	6.5	5.5
25	---		6.5	4.0	11.5	7.5	12.0	10.0	9.0	7.0	7.0	6.0
26	---		6.0	4.0	11.0	8.0	11.0	9.0	8.5	6.0	---	---
27	---		7.0	3.0	9.0	7.5	12.5	9.0	8.0	4.0	---	---
28	---		9.5	3.5	13.0	7.0	11.5	10.0	7.5	3.5	---	---
29	---		8.0	4.0	12.0	9.5	10.5	9.5	8.0	4.0	---	---
30	3.5		7.0	4.0	11.5	8.5	12.0	8.5	9.5	4.5	---	---
31	---		8.0	4.0	---	---	11.5	9.5	7.0	5.0	---	---
MONTH			9.5	1.0	13.5	4.0	15.0	7.5	15.0	3.5		
YEAR	15.0											

15294010 DECEPTION CREEK NEAR WILLOW

LOCATION.--Lat 61°44'52", long 149°56'14", in NE¼SE¼ sec.11, T.19 N., R.4 W., Matanuska-Susitna Borough, Hydrologic Unit 19050002, on left bank 0.6 mi downstream from unnamed tributary, 3.3 mi east of Willow, and 4.9 mi upstream from mouth.

DRAINAGE AREA.--48.0 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1978 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 250 ft, from topographic map. Prior to May 1, 1980 at site 500 ft upstream at different datum.

REMARKS.--Water-discharge records fair except those for Nov. 14 to Apr. 19, which are poor.

AVERAGE DISCHARGE.--6 years, 65.4 ft³/s, 18.50 in/yr, 47,380 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 751 ft³/s June 21, 1980, gage height, 8.44 ft; minimum daily, about 2.0 ft³/s Dec. 24, 1980 to Jan. 14, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum discharge recorded, 380 ft³/s May 9, gage height, 6.95 ft, but may have been higher during period of fragmentary height record, May 10; minimum, 6.2 ft³/s Nov. 6, result of freezeup.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	48	35	29	24	20	24	20	155	131	30	35	42
2	44	34	29	24	20	24	20	225	97	33	33	39
3	40	33	29	24	20	23	20	195	80	35	33	37
4	36	33	28	24	20	22	20	170	70	30	31	36
5	34	33	28	24	20	21	20	165	66	28	29	35
6	34	22	28	24	20	21	20	165	61	26	29	35
7	34	39	28	23	20	21.	20	175	72	24	28	34
8	33	37	28	23	20	21	20	230	63	24	26	35
9	33	35	28	23	20	21	20	285	75	40	28	35
10	33	35	28	22	20	21	20	295	69	60	29	39
11	34	35	28	22	20	21	20	255	60	55	27	40
12	36	34	28	22	20	21	21	200	53	46	26	43
13	35	34	27	22	20	21	21	160	51	70	25	44
14	33	33	27	22	20	21	22	150	48	66	24	43
15	34	33	27	22	20	21	23	145	57	46	24	42
16	33	32	27	21	21	21	24	135	144	35	24	41
17	33	32	27	21	22	21	26	124	195	33	24	40
18	35	32	27	21	23	21	28	123	102	32	27	40
19	33	31	26	21	24	21	30	126	69	33	40	73
20	33	31	26	21	24	21	34	116	53	42	38	156
21	33	31	25	20	24	21	40	101	45	69	36	125
22	33	30	25	20	24	21	51	110	41	56	34	100
23	33	30	25	19	24	21	54	104	37	40	40	68
24	32	30	25	19	24	21	49	89	37	35	42	61
25	33	30	24	19	24	21	45	79	34	49	208	61
26	34	30	24	19	24	21	50	86	33	94	190	70
27	34	30	24	19	24	21	55	114	37	78	83	61
28	34	29	24	19	24	21	105	90	39	52	57	54
29	33	29	24	19	24	21	173	75	33	43	50	69
30	33	29	24	19	---	21	142	148	31	44	43	76
31	33	---	24	19	---	21	---	151	---	39	42	---
TOTAL	1073	961	821	661	630	660	1213	4741	1983	1387	1405	1674
MEAN	34.6	32.0	26.5	21.3	21.7	21.3	40.4	153	66.1	44.7	45.3	55.8
MAX	48	39	29	24	24	24	173	295	195	94	208	156
MIN	32	22	24	19	20	21	20	75	31	24	24	34
CFSM	.72	.67	.55	.44	.45	.44	.84	3.19	1.38	.93	.94	1.16
IN.	.83	.74	.64	.51	.49	.51	.94	3.67	1.54	1.07	1.09	1.30
AC-FT	2130	1910	1630	1310	1250	1310	2410	9400	3930	2750	2790	3320

CAL YR 1983 TOTAL 18611 MEAN 51.0 MAX 383 MIN 14 CFSM 1.06 IN 14.42 AC-FT 36910
WTR YR 1984 TOTAL 17209 MEAN 47.0 MAX 295 MIN 19 CFSM .98 IN 13.34 AC-FT 34130

NOTE.--No gage-height record Dec. 1 to Jan. 10 and Jan. 23 to Mar. 9; fragmentary gage-height record May 1-16.

15294010 DECEPTION CREEK NEAR WILLOW--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1979 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: October 1978 to current year (seasonal and fragmentary).

INSTRUMENTATION.--Temperature recorder since Oct. 1, 1978.

REMARKS.--Period of no record due to equipment malfunction or probe buried by gravels. Recorded temperatures were found to be within 0.5°C of mean stream temperatures based on two cross-sectional measurements, with a maximum variation of 0.2°C observed within the cross section.

EXTREMES OUTSIDE PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Minimum, 0.0°C on many days during winter period.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum recorded, 17.0°C July 3, 1979.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum recorded,15.5°C June 22.

TEMPERATURE, WATER (DEG. C), OCTOBER 1983 TO SEPTEMBER 1984

DAY	MAX	MIN	DAY	MAX	MIN
	OCTOBER			OCTOBER	
1	4.5	4.0	6	3.5	2.5
2	5.0	4.5	7	2.5	1.5
3	4.5	3.5	8	1.5	1.0
4	3.5	2.0	9	1.0	1.0
5	3.0	2.5	10	1.0	.5

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1					---	---			---	---	9.0	5.5
2					---	---			---	---	9.0	5.5
3					---	---			---	---	9.0	5.5
4					---	---			---	---	9.0	5.5
5					---	---			---	---	10.0	6.0
6					---	---			---	---	9.5	6.5
7					---	---			---	---	9.5	7.5
8					---	---			---	---	10.0	7.5
9					---	---			---	---	9.5	6.5
10					---	---			---	---	9.0	6.0
11					---	---			---	---	9.0	6.0
12					---	---			---	---	8.5	6.0
13					---	---			---	---	8.5	7.0
14					---	---			14.0	---	8.5	7.0
15					---	---			14.5	9.5	9.0	7.5
16					---	---			14.5	10.5	9.0	6.5
17					---	---			---	---	9.0	7.0
18					---	---			---	---	9.0	8.0
19					---	---			---	---	8.0	7.0
20					14.5	---			---	---	6.5	5.5
21					15.0	10.0			11.5	10.0	6.0	4.5
22					15.5	10.0			12.0	10.0	6.0	3.5
23					13.0	10.0			12.5	10.0	6.0	4.5
24					14.5	10.0			11.0	10.0	7.0	5.5
25					14.0	9.5			10.5	9.5	7.5	6.0
26					12.5	10.5			10.0	8.5	7.0	5.5
27					---	---			9.0	6.0	7.0	5.0
28					---	---			8.0	5.0	6.0	5.0
29					---	---			8.5	5.0	7.0	6.0
30					---	---			8.5	5.0	7.0	6.0
31					---	---			7.5	5.0	---	---
MONTH											10.0	3.5

15294100 DESHKA RIVER NEAR WILLOW

LOCATION.--Lat 61°46'05", long 150°20'13, in SW¼NE¼ sec.3, T.19 N., R.6 W., Matanuska-Susitna Borough, Hydrologic Unit 19050002, on left bank 0.2 mi upstream from unnamed tributary, 1.1 mi downstream from unnamed tributary, 7.9 mi upstream from mouth, and 10 mi west of Willow.

DRAINAGE AREA.--592 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1978 to current year.

REVISED RECORDS.--WDR AK-83-1: 1980.

GAGE.--Water-stage recorder. Altitude of gage is 80 ft, from topographic map.

REMARKS.--Records good except those for period of no gage-height record, Oct. 23 to Apr. 27, which are poor.

AVERAGE DISCHARGE.--6 years, 890 ft³/s, 20.42 in/yr, 644,800 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,920 ft³/s Nov. 13, 1979, gage height, 8.16 ft; maximum gage height, 11.21 ft, Apr. 30, 1983, ice jam; minimum daily, about 170 ft³/s, Mar. 1-12, 1982 and Mar. 21 to Apr. 2, 1983.

EXTREMES OUTSIDE PERIOD OF RECORD.--A discharge of 143 ft³/s was measured, Mar. 13, 1978.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 3,600 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Oct. 13	2400	*4,260	*4.94	Aug. 27	2000	4,070	4.81

Minimum discharge, 189 ft³/s July 17-18, but may have been less during period of no gage-height record Jan. 15 to Feb. 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2470	650	400	270	230	230	370	2240	997	309	486	708
2	2130	700	360	270	230	230	370	2780	836	296	443	631
3	1860	670	340	270	230	230	370	3300	708	296	487	565
4	1490	600	330	270	230	230	370	3240	622	272	464	517
5	1160	580	320	270	230	240	376	3000	557	266	408	487
6	980	560	310	260	230	240	380	2840	502	255	380	475
7	862	540	310	260	230	240	380	2810	487	237	393	450
8	744	520	300	260	230	240	380	2790	533	232	366	475
9	699	510	300	260	230	240	380	2850	540	216	346	500
10	751	500	290	250	230	240	390	2830	509	216	373	475
11	1410	480	290	260	230	250	390	2880	502	216	360	450
12	3200	460	290	270	230	270	390	2590	464	210	321	425
13	4080	420	290	260	230	280	390	2190	435	205	302	450
14	3860	400	290	260	230	290	400	1930	421	205	284	550
15	2580	390	290	250	230	300	410	1830	400	205	249	500
16	1900	380	290	240	230	310	420	1760	407	200	237	400
17	1530	360	290	240	240	310	460	1680	508	195	221	375
18	1300	350	290	230	240	310	480	1560	629	189	232	350
19	1180	360	290	230	250	310	500	1500	605	205	339	400
20	1060	370	290	230	250	310	520	1360	503	237	1070	500
21	969	400	290	220	240	310	530	1240	429	289	1410	450
22	928	420	280	220	240	310	550	1150	387	448	1190	400
23	850	390	280	220	237	310	580	1100	360	487	1090	350
24	750	350	300	220	230	310	620	1040	360	394	1270	325
25	690	340	310	220	230	320	700	900	353	328	2100	300
26	630	340	310	220	230	330	800	799	340	334	3080	325
27	620	350	300	220	230	340	950	771	340	618	3840	325
28	750	370	300	220	230	350	1070	908	327	742	3170	300
29	680	390	290	220	230	360	1450	853	321	583	1510	325
30	640	400	290	230	---	370	1860	772	315	503	1050	500
31	620	---	280	230	---	370	---	898	---	479	836	---
TOTAL	43373	13550	9390	7550	6757	8980	17236	58391	14697	9867	28307	13283
MEAN	1399	452	303	244	233	290	575	1884	490	318	913	443
MAX	4080	700	400	270	250	370	1860	3300	997	742	3840	708
MIN	620	340	280	220	230	230	370	771	315	189	221	300
CFSM	2.36	.76	.51	.41	.39	.49	.97	3.18	.83	.54	1.54	.75
IN.	2.73	.85	.59	.47	.42	.56	1.08	3.67	.92	.62	1.78	.83
AC-FT	86030	26880	18630	14980	13400	17810	34190	115800	29150	19570	56150	26350

CAL YR 1983 TOTAL 262975 MEAN 720 MAX 4770 MIN 170 CFSM 1.22 IN 16.52 AC-FT 521600
WTR YR 1984 TOTAL 231381 MEAN 632 MAX 4080 MIN 189 CFSM 1.07 IN 14.54 AC-FT 458900

15294100 DESHKA RIVER NEAR WILLOW--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water year 1981 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS) (00061)	SPECIFIC CONDUCTANCE (UMHOS) (00095)	TEMPERATURE (DEG C) (00010)
FEB				
23...	1000	237	81	.0
APR				
05...	1000	376	76	--

15294345 YENTNA RIVER NEAR SUSITNA STATION

LOCATION.--Lat 61°41'55", long 150°39'02", in NW¼ sec.36, T.19 N., R.8 W., Matanuska-Susitna Borough, Hydrologic Unit 19050002, on right bank 12 mi upstream from mouth and 14 mi northwest of Susitna Station.

DRAINAGE AREA.--6,180 mi², approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1980 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 80 ft, from topographic map.

REMARKS.--Water-discharge records poor for period of no gage-height record prior to May 2, good thereafter. Satellite telemetry at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 116,000 ft³/s Aug. 13, 1981, gage height, 18.61 ft; minimum daily, about 2,000 ft³/s Mar. 21 to Apr. 10, 1982.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 100,000 ft³/s Aug. 20, gage-height, 17.16 ft; minimum daily, about 2,100 ft³/s Apr. 15-21.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18000	6500	4600	2900	2400	2200	3100	21000	31100	57400	52400	24300
2	16000	6500	4600	2900	2400	2200	3200	26000	31100	58600	51100	22600
3	15000	6500	4400	2900	2400	2200	3300	35300	33300	60200	49500	21600
4	14000	6000	4400	2800	2400	2200	3400	36700	35800	55100	50900	20800
5	13000	6000	4400	2800	2400	2200	3540	30800	38900	61800	55800	20200
6	12000	6000	4400	2800	2400	2200	3600	19400	41400	66900	62300	20000
7	11000	6000	4400	2800	2400	2200	3700	20200	45100	65100	65900	19700
8	10000	6000	4200	2700	2400	2200	3800	22200	50300	61100	62800	20500
9	11000	5800	4000	2700	2400	2200	3900	24700	47000	58400	61500	21200
10	12000	5800	3900	2700	2400	2200	4000	27400	44500	52800	56300	20600
11	13000	5600	3800	2700	2300	2200	4100	28800	43400	50100	50100	20100
12	14000	5400	3700	2600	2300	2200	4200	27100	43900	49400	44200	19600
13	15000	5400	3600	2600	2300	2200	4300	24200	48000	47000	42800	19200
14	14000	5400	3500	2600	2300	2200	4500	24400	54000	45300	41200	23100
15	13000	5400	3400	2600	2300	2100	4600	26300	50800	41400	40700	22700
16	12000	5400	3400	2600	2300	2100	4800	28000	52600	41600	42300	20500
17	11000	5400	3300	2600	2300	2100	5100	29900	54200	43200	44000	19000
18	10000	5400	3200	2600	2300	2100	5400	32200	54400	49200	46800	18100
19	9500	5200	3100	2600	2300	2100	5700	36400	51200	49400	72400	19600
20	9000	5200	3000	2600	2300	2100	6000	37600	50900	47200	96600	20800
21	8500	5200	3000	2600	2300	2100	6400	38700	53500	49100	73200	19300
22	8000	5000	3000	2600	2200	2200	7000	40100	57200	47400	59100	16700
23	8000	5000	3000	2600	2240	2200	7400	39800	59800	45000	63800	14900
24	7500	4800	3000	2600	2200	2300	7600	37400	62500	45100	63100	13900
25	7500	4800	3100	2500	2200	2300	8000	38600	64100	49500	66300	13600
26	7000	4800	3100	2500	2200	2400	8000	38000	63400	53400	65600	14600
27	7000	4800	3100	2500	2200	2500	8500	35800	59900	55400	48600	14500
28	7000	4800	3100	2500	2200	2600	9500	34300	62300	52800	37800	13800
29	7000	4600	3100	2400	2200	2700	11000	32500	59400	55400	32600	13600
30	6500	4600	3100	2400	---	2900	15000	31000	58800	56500	29000	19900
31	6500	---	3000	2400	---	3000	---	32500	---	55700	26300	---
TOTAL	333000	163300	110900	81700	66940	70600	172640	957300	1502800	1626500	1655000	569000
MEAN	10740	5443	3577	2635	2308	2277	5755	30880	50090	52470	53390	18970
MAX	18000	6500	4600	2900	2400	3000	15000	40100	64100	66900	96600	24300
MIN	6500	4600	3000	2400	2200	2100	3100	19400	31100	41400	26300	13600
CFSM	1.74	.88	.58	.43	.37	.37	.93	5.00	8.11	8.49	8.64	3.07
IN.	2.00	.98	.67	.49	.40	.42	1.04	5.76	9.05	9.79	9.96	3.43
AC-FT	660500	323900	220000	162100	132800	140000	342400	1899000	2981000	3226000	3283000	1129000

CAL YR 1983 TOTAL 6613550 MEAN 18120 MAX 112000 MIN 2500 CFSM 2.93 IN 39.81 AC-FT 13120000
WTR YR 1984 TOTAL 7309680 MEAN 19970 MAX 96600 MIN 2100 CFSM 3.23 IN 44.00 AC-FT 14500000

15294345 YENTNA RIVER NEAR SUSITNA STATION--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1981 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: May 1981 to current year (seasonal).

INSTRUMENTATION.--Temperature recorder since May 20, 1981.

REMARKS.--Period of no record due to equipment malfunction. Recorded temperatures were found to be within 0.5° of mean stream temperature based on six cross-sectional measurements, with a maximum variation of 0.7°C observed in the cross section. Several other field observations of water temperature were made during the year.

EXTREMES OUTSIDE PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Minimum, 0.0°C most days during winter periods.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum recorded 17.0°C July 20, 1982.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum recorded, 12.5°C June 20-22 and July 4, 5.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK) (00009)	SPE- CIFIC CON- DUCT- ANCE (UMHOS) (00095)	PH (STAND- ARD UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)
FEB								
23...	1220	160	189	7.7	.0	--	--	--
23...	1221	220	191	7.7	.0	--	--	--
23...	1222	280	195	7.4	.0	--	--	--
23...	1223	340	200	7.8	.0	--	--	--
23...	1224	403	206	7.9	.0	--	--	--
APR								
05...	1410	70.0	--	--	.0	--	--	--
05...	1411	125	--	--	.0	--	--	--
05...	1412	185	--	--	.0	--	--	--
05...	1413	245	--	--	.0	--	--	--
05...	1414	325	--	--	.0	--	--	--
MAY								
14...	1534	90.0	--	--	7.0	--	--	--
14...	1535	300	--	--	7.0	--	--	--
14...	1536	600	--	--	7.0	--	--	--
14...	1537	900	--	--	7.0	--	--	--
14...	1538	1200	--	--	7.0	--	--	--
JUN								
12...	1445	125	99	7.9	12.0	759	10.8	100
12...	1446	400	102	8.0	11.5	759	10.7	99
12...	1447	700	103	8.0	11.5	759	10.7	99
12...	1448	950	107	8.0	11.5	759	10.7	99
12...	1449	1200	113	8.0	12.0	759	10.7	100
JUL								
17...	1335	125	--	--	10.0	--	--	--
17...	1336	350	--	--	10.0	--	--	--
17...	1337	700	--	--	10.5	--	--	--
17...	1338	975	--	--	10.5	--	--	--
17...	1339	1200	--	--	11.0	--	--	--
AUG								
14...	1824	150	101	7.7	10.0	760	11.9	106
14...	1825	400	106	7.7	10.0	760	10.8	96
14...	1826	700	110	7.8	10.0	760	10.6	94
14...	1827	1080	118	7.8	10.0	760	10.6	95
14...	1828	1150	118	7.8	10.0	760	10.4	93
SEP								
19...	1530	150	--	--	7.0	--	--	--
19...	1535	400	--	--	7.0	--	--	--
19...	1540	650	--	--	7.0	--	--	--
19...	1545	950	--	--	7.0	--	--	--
19...	1550	1150	--	--	7.0	--	--	--

15294345 YENTNA RIVER NEAR SUSITNA STATION--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM WIDTH (FT) (00004)	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SED. SUSP. FALL DIAM. % FINER THAN .002 MM (70337)	SED. SUSP. FALL DIAM. % FINER THAN .004 MM (70338)	SED. SUSP. FALL DIAM. % FINER THAN .008 MM (70339)
FEB 23...	1230	407	2240	4	24	--	--	--
APR 05...	1420	415	3540	7	67	--	--	--
MAY 14...	1540	1290	24400	227	15000	--	--	--
JUN 12...	1500	--	44300	363	43400	20	23	27
JUL 17...	1345	1280	42900	684	79200	28	36	46
AUG 14...	1830	1280	39400	792	84300	24	29	39
SEP 19...	1600	1250	20500	257	14200	--	--	--

DATE	SED. SUSP. FALL DIAM. % FINER THAN .016 MM (70340)	SED. SUSP. FALL DIAM. % FINER THAN .031 MM (70341)	SED. SUSP. FALL DIAM. % FINER THAN .062 MM (70342)	SED. SUSP. FALL DIAM. % FINER THAN .125 MM (70343)	SED. SUSP. FALL DIAM. % FINER THAN .250 MM (70344)	SED. SUSP. FALL DIAM. % FINER THAN .500 MM (70345)	SED. SUSP. FALL DIAM. % FINER THAN 1.00 MM (70346)
FEB 23...	--	--	--	--	--	--	--
APR 05...	--	--	*73	--	--	--	--
MAY 14...	--	--	30	53	85	98	100
JUN 12...	32	42	50	64	91	100	--
JUL 17...	54	62	68	76	89	99	100
AUG 14...	49	57	66	74	89	99	100
SEP 19...	--	--	45	58	77	97	100

SIEVE ANALYSIS

15294345 YENTNA RIVER NEAR SUSITNA STATION--Continued

TEMPERATURE, WATER (DEG. C), JUNE TO SEPTEMBER 1984

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1					---	---	11.0	9.0	8.0	7.5	7.0	5.5
2					---	---	11.0	10.0	9.0	8.0	8.5	6.5
3					---	---	11.0	8.5	9.5	8.5	8.5	7.5
4					---	---	12.5	10.0	11.0	9.0	8.5	7.5
5					---	---	12.5	11.0	12.0	10.5	9.0	7.5
6					---	---	12.0	10.5	11.5	10.0	9.0	6.0
7					---	---	11.0	9.5	11.5	9.5	9.0	7.5
8					---	---	11.5	10.0	11.0	9.5	9.0	8.0
9					---	---	11.5	10.0	10.0	8.0	8.5	7.5
10					---	---	11.0	9.5	10.0	9.0	8.0	7.5
11					---	---	10.0	9.0	9.5	8.0	8.0	7.0
12					12.0	---	11.0	9.0	11.0	9.0	8.0	7.0
13					12.0	11.0	11.5	10.0	10.5	9.0	7.5	6.5
14					11.0	9.5	11.5	9.0	10.5	9.0	6.5	6.5
15					10.5	10.0	12.0	9.5	11.0	9.0	6.5	6.0
16					10.0	9.0	12.0	11.0	11.5	10.0	7.0	6.0
17					9.0	8.0	11.5	10.5	11.5	9.5	7.5	6.5
18					9.5	8.5	11.0	8.0	9.5	8.0	7.5	7.0
19					11.5	9.0	8.0	7.5	8.0	7.0	7.5	6.5
20					12.5	10.5	8.0	7.5	8.0	7.5	6.5	6.0
21					12.5	11.0	9.0	7.5	8.0	7.5	6.0	5.0
22					12.5	11.0	9.5	8.0	8.0	7.5	5.5	4.5
23					12.0	11.0	10.0	8.5	8.5	7.5	---	---
24					11.0	9.5	11.5	10.0	9.0	8.0	---	---
25					10.5	9.5	11.5	10.0	8.5	7.5	---	---
26					11.0	9.5	10.0	9.0	7.5	7.5	---	---
27					10.0	8.5	11.0	9.0	7.0	6.0	---	---
28					9.5	8.0	12.0	10.0	7.0	6.0	---	---
29					9.0	8.0	10.5	8.0	7.0	6.0	---	---
30					9.5	8.5	8.0	7.5	7.0	6.0	7.0	6.0
31					---	---	8.0	7.5	6.5	6.0	---	---
MONTH							12.5	7.5	12.0	6.0	9.0	
YEAR	12.5											

15294350 SUSITNA RIVER AT SUSITNA STATION
(National stream-quality accounting network station)

LOCATION.--Lat 61°32'41", long 150°30'45", in SE¼SE¼ sec.22, T.17 N., R.7 W., Matanuska-Susitna Borough, Hydrologic Unit 19050002, on left bank at Susitna Station, 1.5 mi downstream from Yentna River, and 12.5 mi upstream from Alexander Creek.

DRAINAGE AREA.--19,400 mi^2, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1974 to current year.

REVISED RECORD.--WDR AK-82-1: 1980.

GAGE.--Water-stage recorder. Altitude of gage is 40 ft, from topographic map.

REMARKS.--Water-discharge records good, except those for Oct. 21 to May 3, which are poor.

AVERAGE DISCHARGE.--10 years, 49,480 ft^3/s, 34.64 in/yr, 35,850,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 230,000 ft^3/s July 29, 1980 and Aug. 16, 1981; maximum gage height, 20.27 ft, Aug. 16, 1981; minimum daily discharge, about 5,000 ft^3/s Mar. 18 to Apr. 13, 1982.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 171,000 ft^3/s Aug. 26, gage height, 17.50 ft; minimum daily, about 6,000 ft^3/s Mar. 17-23.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	64600	23000	16000	8500	7000	6600	8000	32000	66700	118000	114000	67700
2	64800	22000	16000	8500	7000	6600	8200	40000	66400	116000	109000	62900
3	60700	22000	15000	8000	7000	6600	8400	45000	70900	119000	104000	59500
4	53900	22000	15000	8000	7000	6600	8600	46600	76500	112000	104000	57000
5	47400	21000	15000	8500	7000	6600	8800	46900	82600	115000	108000	55200
6	44400	21000	14000	8500	6800	6400	9100	42700	87200	122000	118000	54100
7	42100	21000	14000	7500	6800	6400	9200	42200	91300	121000	124000	53700
8	37500	21000	13000	7500	6800	6400	9400	40600	96600	116000	123000	53800
9	35100	22000	13000	7500	6800	6400	9400	43700	93400	112000	122000	54000
10	36100	21000	13000	7500	6800	6400	9600	48000	95000	106000	122000	52000
11	41200	21000	12000	7500	6600	6400	9800	51400	94100	103000	114000	51400
12	55400	20000	12000	7500	6600	6200	10000	52400	94300	103000	102000	50400
13	59100	20000	12000	7500	6600	6200	10000	49000	97800	100000	94800	49400
14	54400	20000	11000	7500	6600	6200	11000	48200	112000	99000	90000	52200
15	47400	20000	11000	7500	6600	6200	11000	50400	115000	94300	86700	52600
16	42500	19000	11000	7500	6600	6200	11000	54800	118000	90900	86300	49500
17	38700	18000	10000	7500	6600	6000	11000	58600	131000	92300	87200	47700
18	36500	18000	10000	7000	6600	6000	11000	62800	134000	97500	90000	46100
19	34500	18000	10000	7000	6600	6000	12000	69700	124000	98700	113000	49700
20	33400	17000	10000	7000	6600	6000	13000	75100	118000	97300	146000	57000
21	32000	17000	9500	7000	6600	6000	14000	77200	121000	101000	133000	55500
22	30000	17000	9500	7000	6600	6000	16000	81500	125000	105000	115000	51600
23	29000	17000	9500	7000	6600	6000	17000	85300	128000	101000	114000	47500
24	28000	17000	9500	7000	6600	6200	17000	84100	130000	99300	117000	44400
25	26000	16000	10000	7000	6600	6400	18000	86100	126000	102000	134000	42900
26	25000	16000	10000	7000	6600	6600	19000	86700	125000	112000	166000	43100
27	25000	16000	9500	7000	6600	6800	20000	83500	121000	131000	142000	42600
28	25000	16000	9500	7000	6600	7400	21000	77900	126000	130000	113000	41300
29	25000	16000	9000	7000	6600	7400	23000	72700	124000	126000	92800	40800
30	24000	16000	8500	7000	---	7500	27000	69400	121000	123000	81500	43700
31	24000	---	8500	7000	---	7800	---	68900	---	122000	73700	---
TOTAL	1222700	571000	356000	230500	194400	200500	390500	1873400	3211800	3385300	3440000	1530300
MEAN	39440	19030	11480	7435	6703	6468	13020	60430	107100	109200	111000	51010
MAX	64800	23000	16000	8500	7000	7800	27000	86700	134000	131000	166000	67700
MIN	24000	16000	8500	7000	6600	6000	8000	32000	66400	90900	73700	40800
CFSM	2.03	.98	.59	.38	35	.33	.67	3.12	5.52	5.63	5.72	2.63
IN.	2.34	1.09	.68	.44	.37	.38	.75	3.59	6.16	6.49	6.60	2.93
AC-FT	2425000	1133000	706100	457200	385600	397700	774600	3716000	6371000	6715000	6823000	3035000

CAL YR 1983 TOTAL 16331920 MEAN 44740 MAX 218000 MIN 6400 CFSM 2.31 IN 31.32 AC-FT 32390000
WTR YR 1984 TOTAL 16606400 MEAN 45370 MAX 166000 MIN 6000 CFSM 2.34 IN 31.84 AC-FT 32940000

NOTE.--No gage-height record Oct. 21 to Apr. 5.

15294350 SUSITNA RIVER AT SUSITNA STATION--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1955, 1970, 1975 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: May 1975 to October 1980, May 1983 to current year (seasonal).

INSTRUMENTATION.--Temperature recorder reinstalled May 1983.

REMARKS.--Period of no record due to equipment malfunction. Recorded temperatures were found to be within 0.6°C of mean stream temperature based on five cross-sectional measurements, with a maximum variation of 2.0°C observed in the cross section. Several other field observations of water temperature were made during the year. Recorded temperatures are fair.

EXTREMES OUTSIDE PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Minimum, 0.0°C on most days during winter periods.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum recorded, 16.5°C July 9, 1976 and July 3, 4, 1979.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum recorded, 15.0°C June 22, 23.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	SAMPLE LOC-ATION, CROSS SECTION (FT FM L BANK) (00009)	SPE-CIFIC CON-DUCT-ANCE (UMHOS) (00095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)
APR								
06...	1320	60.0	192	--	.0	752	12.0	83
06...	1322	300	--	--	.0	752	11.6	80
06...	1324	481	185	--	.0	752	11.0	76
MAY								
18...	0810	100	96	--	7.0	755	10.8	90
18...	0811	175	93	--	7.0	755	10.9	91
18...	0812	250	92	--	7.5	755	11.1	93
18...	0813	400	85	--	7.5	755	10.0	84
18...	0814	500	85	--	7.5	755	10.1	85
JUL								
18...	0910	65.0	112	7.8	10.5	761	10.5	94
18...	0911	190	112	7.9	10.5	761	10.7	96
18...	0912	225	110	7.9	10.0	761	10.6	94
18...	0913	390	109	8.0	10.0	761	11.0	97
18...	0914	690	110	8.1	10.0	761	12.2	108
AUG								
15...	1840	90.0	--	--	12.0	--	--	--
15...	1841	165	--	--	12.0	--	--	--
15...	1842	240	--	--	11.5	--	--	--
15...	1843	390	--	--	11.0	--	--	--
15...	1844	640	--	--	10.0	--	--	--
SEP								
20...	1241	90.0	115	7.8	7.0	765	11.0	90
20...	1242	290	118	7.8	7.0	765	11.3	92
20...	1243	440	124	7.9	7.0	765	11.4	93
20...	1244	640	128	7.9	7.0	765	11.4	93
20...	1245	940	133	7.9	7.0	765	11.5	94

DATE	TIME	STREAM WIDTH (FT) (00004)	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	TUR-BID-ITY (NTU) (00076)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	HARD-NESS (MG/L AS CACO3) (00900)	HARD-NESS, NONCAR-BONATE (MG/L CACO3) (00902)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)
APR										
06...	1330	842	9090	7.0	K3	K3	79	12	25	3.9
MAY										
18...	0830	975	61200	32	K7	K1	41	4	13	2.1
JUL										
18...	0915	1870	97800	200	K25	K5	55	7	18	2.5
SEP										
20...	1300	1300	55100	75	K19	K7	54	12	17	2.8

K NON-IDEAL COLONY COUNT

15294350 SUSITNA RIVER AT SUSITNA STATION--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	SODIUM, DISSOLVED (MG/L AS NA) (00930)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	ALKALINITY FIELD (MG/L AS CACO3) (00410)	ALKALINITY, CARBONATE IT-FLD (MG/L - CACO3) (99430)	BICARBONATE IT-FLD (MG/L AS HCO3) (99440)	CARBONATE IT-FLD (MG/L AS CO3) (99445)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)
APR 06...	7.3	1.7	--	68	82	--	15	11	.20
MAY 18...	3.3	1.1	37	--	--	--	11	4.3	.10
JUL 18...	2.3	1.5	--	48	59	.000	15	2.2	.10
SEP 20...	3.2	1.5	--	43	52	--	15	3.9	.10

DATE	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	PHOSPHORUS, DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P) (00671)
APR 06...	10	119	110	.24	.080	<.20	.040	.020	.030
MAY 18...	6.7	63	64	.29	.010	.20	.140	.010	.020
JUL 18...	4.3	72	75	<.10	.010	--	.510	.010	<.010
SEP 20...	5.9	80	75	<.10	.020	.30	.210	.010	.030

DATE	TIME	ALUMINUM, DISSOLVED (UG/L AS AL) (01106)	ARSENIC DISSOLVED (UG/L AS AS) (01000)	BARIUM, DISSOLVED (UG/L AS BA) (01005)	BERYLLIUM, DISSOLVED (UG/L AS BE) (01010)	CADMIUM DISSOLVED (UG/L AS CD) (01025)	CHROMIUM, DISSOLVED (UG/L AS CR) (01030)	COBALT, DISSOLVED (UG/L AS CO) (01035)	COPPER, DISSOLVED (UG/L AS CU) (01040)	IRON, DISSOLVED (UG/L AS FE) (01046)	LEAD, DISSOLVED (UG/L AS PB) (01049)
APR 06...	1330	20	<1	35	<.5	<1	<1	<3	4	120	<1
MAY 18...	0830	50	<1	21	<1.0	<1	<1	<3	3	170	<1
JUL 18...	0915	120	1	22	<1.0	<1	<1	<3	1	130	4
SEP 20...	1300	80	1	25	<1.0	<1	<1	<3	2	110	<1

DATE	LITHIUM DISSOLVED (UG/L AS LI) (01130)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	MERCURY DISSOLVED (UG/L AS HG) (71890)	MOLYBDENUM, DISSOLVED (UG/L AS MO) (01060)	NICKEL, DISSOLVED (UG/L AS NI) (01065)	SELENIUM, DISSOLVED (UG/L AS SE) (01145)	SILVER, DISSOLVED (UG/L AS AG) (01075)	STRONTIUM, DISSOLVED (UG/L AS SR) (01080)	VANADIUM, DISSOLVED (UG/L AS V) (01085)	ZINC, DISSOLVED (UG/L AS ZN) (01090)
APR 06...	14	12	<.1	<10	<1	<1	<1	150	<6	31
MAY 18...	10	12	<.1	<10	<1	<1	<1	76	<6	16
JUL 18...	13	6	<.1	<10	1	<1	<1	87	<6	12
SEP 20...	10	7	<.1	<10	1	<1	<1	98	<6	14

SOUTH-CENTRAL ALASKA

15294350 SUSITNA RIVER AT SUSITNA STATION--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM WIDTH (FT) (00004)	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SED. SUSP. FALL DIAM. % FINER THAN .002 MM (70337)	SED. SUSP. FALL DIAM. % FINER THAN .004 MM (70338)	SED. SUSP. FALL DIAM. % FINER THAN .008 MM (70339)
APR								
06...	1330	842	9090	185	4540	--	--	--
MAY								
18...	0830	975	61200	523	86400	8	10	--
JUL								
18...	0915	1870	97800	700	185000	30	40	50
AUG								
15...	1845	1870	82200	E563	--	--	--	--
SEP								
20...	1300	1300	55100	543	80800	10	15	24

DATE	SED. SUSP. FALL DIAM. % FINER THAN .016 MM (70340)	SED. SUSP. FALL DIAM. % FINER THAN .031 MM (70341)	SED. SUSP. FALL DIAM. % FINER THAN .062 MM (70342)	SED. SUSP. FALL DIAM. % FINER THAN .125 MM (70343)	SED. SUSP. FALL DIAM. % FINER THAN .250 MM (70344)	SED. SUSP. FALL DIAM. % FINER THAN .500 MM (70345)	SED. SUSP. FALL DIAM. % FINER THAN 1.00 MM (70346)
APR							
06...	--	--	*93	--	--	--	--
MAY							
18...	17	--	31	44	66	90	100
JUL							
18...	60	71	80	86	97	100	--
AUG							
15...	--	--	*E76	--	--	--	--
SEP							
20...	31	38	47	61	90	100	--

TEMPERATURE, WATER (DEG. C), OCTOBER 1983 TO SEPTEMBER 1984

DAY	MAX	MIN	DAY	MAX	MIN
	OCTOBER			OCTOBER	
1	4.5	3.5	10	.0	.0
2	4.5	4.0	11	.0	.0
3	4.0	3.5	12	2.0	.5
4	3.5	2.5	13	2.0	1.5
5	2.5	2.0	14	2.0	1.0
6	2.5	2.0	15	1.5	1.0
7	2.0	1.0	16	1.0	.0
8	1.0	.0	17	.5	.0
9	.0	.0			

E ESTIMATE
* SIEVE ANALYSES

SOUTH-CENTRAL ALASKA

15294350 SUSITNA RIVER AT SUSITNA STATION--Continued

TEMPERATURE, WATER (DEG. C), OCTOBER 1983 TO SEPTEMBER 1984

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	---	---	.0	.0	12.0	9.5	13.0	12.5	11.5	10.5	7.5	6.0
2	---	---	.0	.0	12.5	11.0	12.5	12.0	11.0	10.5	8.5	7.0
3	---	---	.0	.0	12.5	11.0	12.5	11.0	11.5	10.5	8.5	7.5
4	---	---	.0	.0	13.0	11.0	14.0	11.5	13.0	11.0	8.5	7.5
5	---	---	.5	.0	13.0	11.5	14.5	13.0	13.0	12.0	9.0	7.5
6	---	---	.5	.0	12.5	10.5	14.5	12.5	13.0	12.0	9.5	8.5
7	---	---	1.0	.0	11.0	9.5	14.0	12.5	14.0	12.0	9.5	9.0
8	---	---	2.0	.5	11.5	9.5	13.5	12.5	14.0	12.0	9.5	8.5
9	---	---	2.5	1.0	11.5	10.5	12.5	11.5	13.5	11.5	9.5	8.5
10	---	---	2.5	.5	12.0	10.5	12.5	11.0	12.5	11.5	9.5	8.0
11	---	---	4.0	1.5	12.5	11.0	12.5	11.5	12.5	10.5	9.0	7.5
12	---	---	5.5	3.0	13.0	11.0	13.5	11.5	12.5	11.0	8.5	7.5
13	---	---	6.5	4.0	13.0	11.5	12.5	11.5	12.5	11.0	8.5	7.5
14	---	---	7.5	5.5	11.5	10.5	12.5	11.5	12.5	10.5	8.0	7.5
15	---	---	8.0	6.5	11.5	10.0	13.5	11.5	12.0	10.5	7.5	7.0
16	---	---	8.0	7.0	10.5	8.5	13.5	12.5	12.5	11.0	8.0	7.0
17	---	---	8.0	6.5	9.5	8.0	13.0	11.0	12.5	11.5	9.0	8.0
18	---	---	8.5	7.0	11.5	8.5	11.0	10.0	11.5	10.0	9.0	8.0
19	---	---	8.5	7.0	13.5	11.0	10.0	9.5	10.0	9.0	8.0	7.5
20	---	---	8.5	7.0	14.5	12.5	10.0	9.5	9.5	8.5	7.0	6.5
21	---	---	8.5	7.0	14.0	12.5	11.0	9.0	9.5	8.0	7.0	6.0
22	---	---	8.0	7.0	15.0	12.5	11.5	10.5	9.5	9.0	7.0	5.5
23	---	---	8.5	6.5	15.0	13.0	12.5	10.5	10.0	9.0	6.0	5.5
24	---	---	10.0	8.0	13.5	11.5	13.5	12.0	10.0	9.5	6.0	5.5
25	---	---	9.5	8.5	13.0	11.5	13.5	12.0	9.0	8.5	7.0	6.0
26	---	---	9.0	8.0	13.0	12.0	12.0	10.5	9.0	7.5	7.5	6.5
27	---	---	9.0	7.5	12.5	11.5	12.0	11.0	8.0	7.0	7.5	7.0
28	---	---	9.5	8.0	12.0	10.5	12.0	11.0	7.5	6.5	7.5	6.5
29	.0	.0	9.5	9.0	12.5	11.0	12.0	11.0	7.5	6.0	6.5	6.5
30	.0	.0	9.0	8.0	13.0	11.5	11.5	10.5	7.5	6.0	7.5	6.5
31	---	---	10.0	8.0	---	---	11.5	11.0	7.5	6.0	---	---
MONTH		.0	10.0	.0	15.0	8.0	14.5	9.0	14.0	6.0	9.5	5.5
YEAR	15.0	.0										

15294410 CAPPS CREEK BELOW NORTH CAPPS CREEK NEAR TYONEK

LOCATION.--Lat 61°19'45", long 151°39'56", in SE¼SE¼ sec.6, T.14 N., R.13 W., Kenai Peninsula Borough, Hydrologic Unit 19050002, on left bank 1.2 mi downstream from North Capps Creek, about 2 mi upstream from mouth, and 25 mi northwest of Tyonek.

DRAINAGE AREA.--10.5 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1979 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 520 ft, from topographic map.

REMARKS.--Records fair except those for Oct. 25 to Mar. 13 and Aug. 19 to Sept. 30, which are poor.

AVERAGE DISCHARGE.--5 years, 51.9 ft^3/s, 67.12 in/yr, 37,600 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 710 ft^3/s June 25, 1980, gage height, 6.95 ft, from rating curve extended above 300 ft^3/s; maximum gage height, 7.71 ft Apr. 23, 1981, backwater from ice; minimum daily discharge, about 5.0 ft^3/s Dec. 18-29, 1981.

EXTREMES FOR CURRENT YEAR.--Maximum discharge recorded, 392 ft^3/s June 7, gage height, 6.50 ft, from rating curve extended above 240 ft^3/s on basis of slope-area measurement at gage height 7.60 ft, but may have been higher Aug. 19 or Sept. 29 during period of no gage-height record. Minimum discharge observed, 6.0 ft^3/s Dec. 28, but may have been less during period Dec. 15 to Feb. 16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	53	15	7.0	6.0	6.0	7.0	10	45	183	83	15	25
2	71	15	7.0	6.0	6.0	7.0	9.6	42	197	76	17	25
3	50	10	7.0	6.0	6.0	7.0	9.6	29	215	71	17	20
4	38	10	7.0	6.0	6.0	7.0	9.6	24	256	73	14	20
5	34	10	7.0	6.0	6.0	8.0	9.6	23	252	74	13	20
6	30	10	7.0	6.0	6.0	8.0	9.6	24	228	70	13	20
7	23	10	7.0	6.0	6.0	10	9.6	24	345	67	11	15
8	28	10	7.0	6.0	6.0	10	9.6	34	272	56	11	15
9	24	10	7.0	6.0	6.0	10	9.6	32	257	49	20	15
10	26	10	7.0	6.0	6.0	10	9.6	38	217	47	13	15
11	124	10	7.0	6.0	6.0	15	9.6	42	225	50	13	15
12	50	10	7.0	6.0	6.0	15	9.6	40	244	40	12	15
13	37	10	7.0	6.0	6.0	20	9.6	41	241	43	10	20
14	33	8.0	7.0	6.0	6.0	18	10	47	187	35	10	15
15	32	8.0	6.0	6.0	6.0	15	10	43	186	35	9.6	18
16	29	8.0	6.0	6.0	6.0	14	10	63	170	36	9.6	15
17	28	8.0	6.0	6.0	7.0	13	10	77	165	30	9.2	15
18	27	8.0	6.0	6.0	7.0	13	10	115	158	36	85	15
19	25	8.0	6.0	6.0	7.0	13	10	118	170	28	300	15
20	24	8.0	6.0	6.0	7.0	12	10	123	198	28	150	40
21	24	8.0	6.0	6.0	7.0	11	10	120	200	23	120	30
22	23	8.0	6.0	6.0	7.0	10	10	117	193	21	150	20
23	23	8.0	6.0	6.0	7.0	10	10	115	168	20	120	15
24	22	8.0	6.0	6.0	7.0	10	10	155	141	19	150	15
25	20	8.0	6.0	6.0	7.0	10	10	180	125	17	200	100
26	20	8.0	6.0	6.0	7.0	10	10	157	112	21	150	80
27	15	8.0	6.0	6.0	7.0	9.6	10	161	117	17	100	70
28	15	8.0	6.0	6.0	7.0	9.6	11	139	96	16	70	150
29	15	7.0	6.0	6.0	7.0	9.6	18	132	93	15	50	290
30	15	7.0	6.0	6.0	---	9.6	30	130	83	15	40	250
31	15	---	6.0	6.0	---	9.6	---	148	---	15	30	---
TOTAL	993	274.0	200.0	186.0	187.0	341.0	324.2	2578	5694	1226	1932.4	1393
MEAN	32.0	9.13	6.45	6.00	6.45	11.0	10.8	83.2	190	39.5	62.3	46.4
MAX	124	15	7.0	6.0	7.0	20	30	180	345	83	300	290
MIN	15	7.0	6.0	6.0	6.0	7.0	9.6	23	83	15	9.2	15
CFSM	3.05	.87	.61	.57	.61	1.05	1.03	7.92	18.1	3.76	5.93	4.42
IN.	3.52	.97	.71	.66	.66	1.21	1.15	9.13	20.17	4.34	6.85	4.93
AC-FT	1970	543	397	369	371	676	643	5110	11290	2430	3830	2760

CAL YR 1983 TOTAL 12185.6 MEAN 33.4 MAX 300 MIN 6.0 CFSM 3.18 IN 43.17 AC-FT 24170
WTR YR 1984 TOTAL 15328.6 MEAN 41.9 MAX 345 MIN 6.0 CFSM 3.99 IN 54.30 AC-FT 30400

NOTE.--No gage-height record Jan. 14 to Mar. 5 and Aug. 19 to Sept. 30.

15294410 CAPPS CREEK BELOW NORTH CAPPS CREEK NEAR TYONEK--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water year 1983 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	SPE-CIFIC CON-DUCT-ANCE (UMHOS) (00095)	TEMPER-ATURE (DEG C) (00010)
FEB				
22...	1415	6.6	60	1.0

SOUTH-CENTRAL ALASKA

15294450 CHUITNA RIVER NEAR TYONEK

LOCATION.--Lat 61°06'31", long 151°15'07", in NE¼NE¼ sec.29, T.12 N., R.11 W., Kenai Peninsula Borough, Hydrologic Unit 19050002, on left bank 2.1 mi downstream from Lone Creek, 4.8 mi northwest of Tyonek, and 6.1 mi upstream from mouth.

DRAINAGE AREA.--131 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1975 to current year.

REVISED RECORDS.--WDR AK-82-1: 1976 (M), 1977, 1979 (M), 1980, and 1981 (M).

GAGE.--Water-stage recorder. Altitude of gage is 160 ft, from topographic map.

REMARKS.--Records good except those for periods of no gage-height record, Oct. 25 to Apr. 17 and Aug. 19 to Sept. 30, which are poor.

AVERAGE DISCHARGE.--9 years, 360 ft^3/s, 37.32 in/yr, 260,800 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,800 ft^3/s Sept. 15, 1982, gage height, 10.07 ft , from rating curve extended above 2,700 ft^3/s on basis of slope-area measurement of peak flow; maximum gage height, 10.97 ft. May 14, 1976, backwater from ice; minimum daily discharge, about 30 ft^3/s Dec. 9, 1979.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 2,200 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Oct. 11	1800	2,290	7.24	Aug. 19	Unknown	Unknown	Unknown
June 7	0700	*2,530	*7.44	Sept.29	Unknown	Unknown	Unknown

Minimum discharge recorded, 65 ft^3/s Aug. 15, but may have been less during period of no gage-height record, Jan. 20 to Feb. 29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	490	150	100	90	80	80	110	489	1090	208	103	200
2	795	150	100	90	80	80	110	557	1170	216	110	200
3	602	150	100	90	80	80	120	528	1200	203	106	150
4	356	130	100	90	80	80	120	495	1340	194	99	150
5	309	130	100	90	80	80	120	479	1400	176	92	150
6	281	130	100	90	80	80	120	465	1190	164	91	120
7	228	130	100	90	80	80	120	460	2150	157	87	120
8	195	130	100	90	80	80	120	558	1570	139	82	120
9	227	110	100	90	80	80	120	691	1140	130	88	100
10	427	110	100	90	80	90	120	772	1070	129	94	100
11	1710	110	100	90	80	90	120	818	1040	208	85	100
12	970	110	100	90	80	90	120	749	1090	142	81	100
13	504	110	100	90	80	90	120	742	1000	137	74	150
14	389	110	100	90	80	90	120	876	721	163	71	120
15	338	110	100	90	75	90	120	946	734	128	69	110
16	301	100	100	90	75	90	120	991	587	118	68	100
17	293	100	100	90	75	90	120	1040	731	121	68	100
18	305	100	100	90	75	90	137	1210	536	154	101	100
19	317	100	100	90	75	90	137	1290	516	132	2000	100
20	277	100	100	90	75	100	135	1200	492	128	1000	260
21	269	100	100	90	75	100	142	1140	446	127	800	200
22	277	100	100	90	75	100	171	1000	407	116	1000	150
23	228	100	100	90	75	100	153	913	378	109	800	120
24	241	100	100	90	75	100	150	1060	330	103	1000	120
25	220	100	100	90	75	100	153	1190	310	99	1300	800
26	200	100	100	80	75	100	162	1080	291	144	900	500
27	200	100	100	80	75	100	159	1060	289	132	700	400
28	170	100	97	80	75	100	216	993	273	108	500	1000
29	170	100	90	80	75	100	312	945	236	98	400	1900
30	150	100	90	80	---	110	357	841	222	101	300	1600
31	150	---	90	80	---	110	---	1010	---	97	250	---
TOTAL	11589	3370	3067	2730	2245	2840	4404	26588	23949	4381	12519	9440
MEAN	374	112	98.9	88.1	77.4	91.6	147	858	798	141	404	315
MAX	1710	150	100	90	80	110	357	1290	2150	216	2000	1900
MIN	150	100	90	80	75	80	110	460	222	97	68	100
CFSM	2.86	.86	.76	.67	.59	.70	1.12	6.55	6.09	1.08	3.08	2.41
IN.	3.29	.96	.87	.78	.64	.81	1.25	7.55	6.80	1.24	3.55	2.68
AC-FT	22990	6680	6080	5410	4450	5630	8740	52740	47500	8690	24830	18720

CAL YR 1983 TOTAL 104348 MEAN 286 MAX 2550 MIN 69 CFSM 2.18 IN 29.63 AC-FT 207000
WTR YR 1984 TOTAL 107122 MEAN 293 MAX 2150 MIN 68 CFSM 2.24 IN 30.42 AC-FT 212500

15294450 CHUITNA RIVER NEAR TYONEK--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1975-78. 1982 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS) (00061)	SPECIFIC CONDUCTANCE (UMHOS) (00095)	TEMPERATURE (DEG C) (00010)
FEB				
22...	1140	76	68	.0

15294900 PAINT RIVER NEAR KAMISHAK

LOCATION.--Lat 55°09'14", long 154°15'32", in SE¼NW¼ sec.12, T.12 S., R.30 W., Kenai Peninsula Borough, Hydrologic Unit 19050002, on right bank, 0.5 mi upstream from mouth, 2.0 mi north of Kamishak and 48.0 mi southeast of Iliamna.

DRAINAGE AREA.--205 mi².

PERIOD OF RECORD.--July 1983 to current year.

GAGE.--Water-stage recorder, crest-stage gage and rain gage recorder. Altitude of gage is 50 ft, from topographic map.

REMARKS.--Records poor. Recording rain gage at station, daily values of precipitation available from WATSTORE. Satellite telemetry installed Mar. 16, 1984. Several observations of water temperature were made during the year.

EXTREMES FOR CURRENT PERIOD.--July to September 1983: Maximum discharge, 3,830 ft³/s Sept. 29, gage height, 7.00 ft. from rating curve extended above 1,400 ft³/s; minimum discharge, 367 ft³/s Sept. 17-18.

Water year 1984: Maximum discharge, 12,800 ft³/s Nov. 29, gage height, 12.86 ft, from rating curve extended above 1,400 ft³/s; minimum daily discharge, about 100 ft³/s Feb. 7-24.

DISCHARGE, IN CUBIC FEET PER SECOND, JULY TO SEPTEMBER 1983
MEAN VALUES

DAY	AUG	SEP	DAY	JUL	AUG	SEP	DAY	JUL	AUG	SEP
1	926	456	11	---	572	405	21	1320	482	611
2	1090	443	12	---	559	392	22	1270	495	533
3	1020	495	13	---	559	405	23	1130	507	495
4	937	533	14	---	546	405	24	1340	507	456
5	2020	482	15	---	533	405	25	1660	495	520
6	1320	456	16	---	507	392	26	1860	469	443
7	1020	443	17	---	507	367	27	1130	456	507
8	968	431	18	---	533	431	28	971	456	835
9	689	431	19	---	507	1090	29	971	456	2660
10	598	418	20	1450	495	848	30	948	456	1360
							31	903	456	---

AUGUST	TOTAL - 21141	MEAN - 682	MAX - 2020	MIN - 456	CFSM - 3.33	IN. - 3.84	AC-FT - 41930
SEPTEMBER	TOTAL - 18148	MEAN - 605	MAX - 2660	MIN - 367	CFSM - 2.95	IN. - 3.29	AC-FT - 36000

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1080	546	5000	145	120	110	270	3240	2260	3470	646	351
2	2550	611	3410	145	120	110	210	2520	2750	2550	616	338
3	995	755	2040	140	110	300	200	2000	2900	2110	627	331
4	598	637	1120	140	110	1000	200	1320	3290	2240	548	323
5	559	611	742	140	110	3000	190	923	3330	2280	553	320
6	546	598	598	140	110	7500	190	718	3140	2200	425	318
7	520	1210	456	150	100	6000	190	716	2870	2160	404	314
8	507	3630	304	170	100	4000	190	885	2810	1890	394	481
9	572	3260	280	210	100	8000	180	1180	2950	1640	395	1020
10	2160	4780	255	280	100	9000	180	1490	3200	1380	400	455
11	2040	4090	240	405	100	6000	180	1790	3060	2210	596	380
12	1260	2110	220	2330	100	4000	180	1540	3250	2220	423	356
13	742	1080	210	4220	100	3200	180	1510	3980	1830	383	474
14	650	663	200	2450	100	2200	180	2070	3720	1390	368	3580
15	901	572	195	782	100	1400	180	2350	3360	1140	367	4580
16	729	546	190	355	100	1000	180	3780	3230	1110	367	2970
17	2510	520	180	242	100	700	180	5650	3220	1190	363	1750
18	2660	507	180	230	100	500	180	6400	2760	922	919	1250
19	1350	507	180	230	100	350	180	4850	2430	736	1390	995
20	874	507	200	230	100	300	180	3780	2500	584	639	789
21	2390	716	190	200	100	250	180	3450	2400	582	1300	562
22	1550	559	180	194	100	220	180	3230	2200	819	3150	555
23	901	540	180	180	100	210	180	3060	2530	1110	1550	1610
24	835	533	180	170	100	200	190	2810	4110	751	1630	4690
25	598	520	180	160	110	190	220	2690	6830	517	2140	4000
26	585	507	180	150	110	190	367	2450	5740	542	1450	2590
27	572	533	180	140	110	190	784	2400	3410	536	931	2110
28	559	5510	194	130	110	200	1510	2310	2750	470	647	2470
29	546	11300	181	130	110	210	3340	2360	2970	412	479	2910
30	533	8000	169	120	---	230	4340	2150	4570	511	383	4800
31	546	---	157	120	---	420	---	2030	---	476	363	---
TOTAL	33418	56458	18171	14828	3030	61180	15091	77652	98560	41978	24846	47672
MEAN	1078	1882	586	478	104	1974	503	2505	3285	1354	801	1589
MAX	2660	11300	5000	4220	120	9000	4340	6400	6830	3470	3150	4800
MIN	507	507	157	120	100	110	180	716	2200	412	363	314
CFSM	5.26	9.18	2.86	2.33	.51	9.63	2.45	12.2	16.0	6.61	3.91	7.75
IN.	6.06	10.25	3.30	2.69	.55	11.10	2.74	14.09	17.88	7.62	4.51	8.65
AC-FT	66280	112000	36040	29410	6010	121400	29930	154000	195500	83260	49280	94560

WTR YR 1984 TOTAL 492884 MEAN 1347 MAX 11300 MIN 100 CFSM 6.57 IN 89.44 AC-FT 977600

NOTE.--No gage-height record Jan. 23 to Apr. 18.

15295600 TERROR RIVER NEAR KODIAK

LOCATION.--Lat 57°39'05", long 153°01'46", in SW¼ NE¼ sec.19, T.29 S., R.23 W., Kodiak Island Borough, Hydrologic Unit 19050001, on Kodiak Island, in Kodiak National Wildlife Refuge, on right bank 1,200 ft downstream from Terror Lake Dam, 8 mi upstream from mouth at Terror Bay, and 25 mi southwest of Kodiak.

DRAINAGE AREA.--15.0 mi².

PERIOD OF RECORD.--June 1962 to September 1968, July 1978 to current year.

REVISED RECORD.--WDR AK-81-1: 1962 (M), 1963, 1964 (M), 1965 (M), 1966 (P), 1967 (M), 1968 (M), 1978 (M), 1979 (M), 1980 (P).

GAGE.--Water-stage recorder. Altitude of gage is 1,180 ft, from topographic map. Prior to July 26, 1982, at site 1,200 ft upstream at different datum.

REMARKS.--Records good. Flow completely regulated by Terror Lake Dam. Occasional regulation for construction began in November 1982. Began filling reservoir Apr. 29, 1984. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--11 years (water years 1963-68, 1979-83), 142 ft³/s, 128.55 in/yr, 102,900 acre-ft/yr, prior to filling of Terror Lake reservoir.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,400 ft³/s Oct. 21, 1980, gage height, 7.87 ft, site and datum then in use, from rating curve extended above 770 ft³/s on basis of slope-area measurement of peak flow; minimum daily, about 8.0 ft³/s Mar. 13-24, 1966, prior to regulation. After regulation began, maximum discharge, 508 ft³/s Nov. 10, 1983, gage height, 3.17 ft; minimum daily, 0.35 ft³/s June 11-13, 1984, during filling of reservoir.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 508 ft³/s Nov. 10, gage height, 3.17 ft; minimum daily, 0.35 ft³/s June 11-13, during filling of reservoir.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	102	53	209	112	91	46	49	4.2	.60	.70	50	115
2	117	61	186	110	89	43	46	68	.60	.80	49	112
3	117	61	183	107	87	41	42	25	.50	.80	49	112
4	93	50	179	105	87	37	37	30	.50	.80	49	110
5	83	43	179	105	87	34	34	54	.45	.80	47	107
6	73	34	175	105	87	37	42	57	.45	.80	47	107
7	64	34	159	102	83	35	38	57	.40	.80	43	107
8	56	204	155	100	81	35	36	56	.40	.80	57	107
9	54	429	155	100	81	57	37	56	.40	.85	71	110
10	64	485	155	98	83	57	37	47	.40	2.3	81	110
11	110	398	152	98	85	117	33	45	.35	24	89	110
12	189	296	149	100	93	73	31	12	.35	.85	89	110
13	175	239	143	105	89	75	29	19	.35	.80	89	110
14	131	187	143	105	82	57	26	14	.40	.80	87	110
15	179	138	140	105	74	62	26	8.2	.45	.85	98	112
16	279	85	140	105	85	89	22	3.4	.45	.85	110	110
17	295	40	137	105	83	68	24	2.0	.45	.85	107	110
18	275	11	131	100	81	110	23	2.1	.50	.80	105	110
19	251	13	128	98	77	59	22	1.4	.50	.80	105	110
20	225	21	128	98	75	58	19	1.1	.55	.80	102	107
21	205	12	126	98	75	44	18	.90	.55	3.0	102	105
22	165	8.1	126	98	73	15	17	.80	.55	10	102	105
23	131	19	126	93	66	57	17	.80	.60	5.8	102	105
24	112	50	123	93	62	55	16	.80	.60	1.7	102	105
25	95	20	120	95	57	95	15	.80	.60	1.7	102	105
26	85	25	120	95	54	52	15	.70	.95	1.2	102	105
27	81	57	117	93	53	55	20	.70	.95	8.0	110	107
28	75	59	115	93	51	87	32	.70	.85	13	120	107
29	67	134	115	93	50	77	38	.70	.75	13	120	107
30	57	233	112	93	---	62	1.1	.60	.70	18	115	107
31	53	---	112	91	---	56	---	.60	---	40	115	---
TOTAL	4058	3499.1	4438	3098	2221	1845	842.1	570.50	16.15	156.25	2716	3254
MEAN	131	117	143	99.9	76.6	59.5	28.1	18.4	.54	5.04	87.6	108
MAX	295	485	209	112	93	117	49	68	.95	40	120	115
MIN	53	8.1	112	91	50	15	1.1	.60	.35	.70	43	105

CAL YR 1983 TOTAL 67876.20 MEAN 186 MAX 967 MIN 1.5
WTR YR 1984 TOTAL 26714.10 MEAN 73.0 MAX 485 MIN .35

15295700 TERROR RIVER AT MOUTH NEAR KODIAK

LOCATION.--Lat. 57°41'49", long 153°09'20", in SW¼NE¼ sec.5, T.29 S., R.24 W., Kodiak Island Borough, Hydrologic Unit 19050001, on Kodiak Island, in Kodiak National Wildlife Refuge, on right bank, 0.9 mi upstream from mouth, 7.5 mi downstream from Terror Lake Dam, and 29 mi southwest of Kodiak.

DRAINAGE AREA.--45.7 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--February 1964 to October 1968, October 1981 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 30 ft, from topographic map. Prior to Oct. 1, 1981 at site 0.2 mi downstream at different datum.

REMARKS.--Water-discharge records fair. Flow from 15 mi^2 at headwaters regulated by Terror Lake Dam. Regulation for construction began in November 1982. Filling of reservoir began Apr. 29, 1984.

AVERAGE DISCHARGE.--6 years (water years 1965-68, 1982-83), corrected, 293 ft^3/s, 87.07 in/yr, 212,300 acre-ft/yr, prior to regulation and filling of Terror Lake reservoir.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,820 ft^3/s Sept. 26, 1966, gage height, 6.48 ft, site and datum then in use; maximum gage height, 7.54 ft Mar. 28, 1964 (tidal wave), site and datum then in use; minimum daily discharge, 19 ft^3/s Feb. 23 and Mar. 1, 1967.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,060 ft^3/s Nov. 29, gage height, 4.80 ft, from rating curve extended above 960 ft^3/s on basis of slope-area measurement of peak flow; minimum recorded, 36 ft^3/s Apr. 24, but may have been less during period of recorder malfunction Nov. 23 and 24.

REVISIONS.--The peak discharges and annual maximum (*) for water years 1982 and 1983 and revised daily discharges, in cubic feet per second, for some high-water periods in these years are given below. These figures supersede those published in the reports for 1982 and 1983.

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov. 10, 1981	1800	1,350	3.20	Nov. 26, 1982	0700	1,500	3.35
June 5, 1982	1900	*1,580	*3.43	Dec. 28, 1982	2200	1,610	3.46
June 27, 1982	2200	1,430	3.28	June 21, 1983	1800	*1,910	*3.76
July 4, 1982	0900	1,240	3.09	July 30, 1983	0900	1,550	3.40

Revised daily discharges in cubic feet per second.

July 4, 1982....	1,150	June 29, 1983....	1,600	July 8, 1983....	1,700	July 17, 1983....	1,400
		30..........	1,600	9..........	1,500	18..........	1,200
June 22, 1983....	1,780	July 1, 1983....	1,400	10..........	1,200	19..........	1,000
23..........	1,700	2..........	1,200	11..........	1,100	20..........	900
24..........	1,700	3..........	1,000	12..........	1,000	21..........	800
25..........	1,600	4..........	900	13..........	1,000	22..........	700
26..........	1,700	5..........	800	14..........	1,100	23..........	1,000
27..........	1,700	6..........	1,100	15..........	1,400	24..........	1,200
28..........	1,700	7..........	1,700	16..........	1,600	25..........	900

Monthly	Cfs-day	Mean	Maximum	Minimum	Per square mile	Runoff in Inches	Runoff in Acre-feet
July 1982..............................	19,548	631	1,150	323	13.8	15.91	38,770
WTR YR 1982..............................	104,211	286	1,500	30	6.26	84.83	206,700
CAL YR 1982..............................	106,521	292	1,500	30	6.39	86.71	211,300
June 1983..............................	36,697	1,223	1,780	843	26.8	29.87	72,790
July 1983..............................	33,994	1,097	1,700	563	24.0	27.67	67,430
WTR YR 1983..............................	153,720	421	1,780	26	9.21	125.13	304,900

15295700 TERROR RIVER AT MOUTH NEAR KODIAK--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	187	137	648	222	131	79	103	212	299	340	237	168
2	197	150	464	190	126	77	98	260	348	335	241	165
3	197	150	399	184	124	89	98	198	373	316	249	165
4	171	137	363	165	119	121	93	174	398	335	261	167
5	156	124	339	171	112	317	83	180	430	338	251	166
6	145	119	312	168	114	266	89	174	415	368	218	172
7	131	658	294	162	107	227	85	171	439	358	195	177
8	129	717	290	165	109	293	85	184	447	312	215	222
9	124	1360	269	225	102	599	121	215	430	278	226	226
10	153	1320	257	190	107	502	98	249	430	245	222	222
11	197	933	245	190	107	388	87	273	379	233	245	201
12	233	616	237	618	119	282	79	241	387	215	232	194
13	218	437	226	492	109	223	79	261	495	196	211	223
14	197	322	218	323	100	177	75	249	441	197	192	435
15	347	254	218	262	104	174	72	253	414	226	194	333
16	610	202	211	237	100	180	66	537	417	215	215	518
17	581	168	208	218	102	222	65	1340	400	222	222	395
18	509	117	201	201	98	253	63	974	358	215	261	336
19	468	121	208	174	93	172	61	704	339	201	277	290
20	359	139	230	180	91	148	61	470	312	189	212	256
21	383	145	226	177	89	128	55	394	320	215	210	241
22	304	121	215	153	85	95	50	349	307	272	233	313
23	273	110	201	142	79	121	50	321	359	348	212	467
24	216	110	190	150	73	124	47	303	540	392	268	360
25	187	150	184	146	83	168	47	290	672	286	281	313
26	162	150	177	148	214	120	55	281	964	218	212	325
27	159	140	177	153	130	124	267	269	688	213	187	338
28	150	140	180	156	102	148	304	312	482	233	189	378
29	131	2210	180	162	91	134	223	299	499	215	197	371
30	121	1140	174	145	---	121	289	261	372	197	192	403
31	111	---	174	139	---	111	---	273	---	200	177	---
TOTAL	7506	12597	7915	6408	3120	6183	3048	10671	13154	8123	6934	8542
MEAN	242	420	255	207	108	199	102	344	438	262	224	285
MAX	610	2210	648	618	214	599	304	1340	964	392	281	518
MIN	111	110	174	139	73	77	47	171	299	189	177	165
AC-FT	14890	24990	15700	12710	6190	12260	6050	21170	26090	16110	13750	16940

CAL YR 1983 TOTAL 157616 MEAN 432 MAX 2210 MIN 26 AC-FT 312600
WTR YR 1984 TOTAL 94201 MEAN 257 MAX 2210 MIN 47 AC-FT 186800

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15295700 TERROR RIVER AT MOUTH NEAR KODIAK--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--December 1981 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: December 1981 to current year.

INSTRUMENTATION.--Temperature recorder since Dec. 10, 1981.

REMARKS.--Recorded temperatures were found to be within 0.5°C of mean stream temperature based on three cross-sectional measurements, with a maximum variation of 0.3°C observed within the cross section.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum recorded, 13.0°C Aug. 13, 14, 1982; minimum recorded, 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum recorded, 12.5°C Aug. 4; minimum recorded, 0.0°C on many days during the winter period.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	7.5	7.0	2.0	1.5	3.0	2.0	2.0	1.5	2.5	1.0	4.0	3.0
2	7.5	6.0	3.0	2.0	2.0	1.0	2.0	1.5	2.0	.5	---	---
3	6.5	5.0	3.0	1.5	2.0	1.0	2.0	.5	1.0	.0	---	---
4	7.0	5.0	3.0	2.0	2.5	1.5	.5	.5	.5	.0	6.5	2.5
5	7.5	6.0	2.5	1.5	2.5	2.0	1.5	.5	.0	.0	5.0	2.5
6	6.5	5.0	2.5	1.0	2.5	2.0	1.5	1.0	.5	.0	6.5	2.5
7	6.0	4.0	3.0	2.5	3.0	2.0	1.5	.5	.0	.0	3.5	1.5
8	6.5	4.0	3.5	2.5	2.5	2.0	2.0	.5	.0	.0	2.5	1.0
9	7.5	6.0	3.5	3.0	2.0	2.0	2.0	1.5	.0	.0	3.5	1.5
10	8.5	7.5	3.5	3.0	2.0	2.0	1.5	1.0	.5	.0	3.0	1.0
11	7.5	6.0	3.0	2.5	2.0	1.5	2.0	1.0	.5	.0	3.0	1.5
12	7.0	5.0	2.5	2.0	1.5	1.0	2.0	1.5	.5	.5	3.5	1.5
13	6.5	5.0	2.0	1.5	1.0	.5	2.0	1.5	.5	.5	3.0	1.0
14	7.5	5.5	2.0	1.0	1.0	.5	1.5	1.0	.5	.0	3.0	1.5
15	6.5	6.0	2.0	1.0	1.5	1.0	1.0	.5	1.0	.5	3.0	1.5
16	7.0	6.0	1.5	1.0	1.5	.5	2.0	1.0	.5	.0	3.5	1.5
17	6.5	5.5	1.0	.5	1.5	.5	2.0	1.5	.5	.5	3.0	2.0
18	6.0	5.5	1.0	1.0	1.5	.5	1.5	.5	1.0	.0	4.0	1.5
19	6.5	5.5	1.0	1.0	2.0	1.5	.5	.0	.5	.0	4.0	1.0
20	6.0	5.0	2.0	1.0	2.5	2.0	1.0	.0	.5	.0	3.5	.5
21	5.5	3.5	2.5	2.0	2.5	2.0	1.0	.5	1.0	.0	3.0	1.5
22	4.0	3.0	2.5	2.0	2.0	1.5	.5	.0	1.5	.5	3.5	1.5
23	3.5	2.5	2.0	1.0	1.5	.5	.0	.0	1.5	.5	4.0	.5
24	4.0	2.5	1.5	1.0	.5	.5	.0	.0	1.0	.5	3.5	1.5
25	3.0	2.0	2.0	1.0	1.0	.5	.0	.0	1.0	.5	4.0	1.5
26	3.0	1.5	2.0	1.0	.5	.5	.0	.0	2.5	.5	4.5	1.0
27	3.5	2.5	2.0	1.0	1.0	.5	.5	.0	7.5	2.5	5.0	1.5
28	3.5	2.0	3.0	2.0	1.5	1.0	.5	.0	2.5	1.5	2.5	.5
29	2.5	1.5	3.0	2.5	2.0	1.5	3.5	.5	3.0	2.0	3.5	1.5
30	1.5	1.0	2.5	2.0	2.0	1.5	3.0	2.0	---	---	4.5	1.5
31	1.5	1.0	---	---	2.0	1.5	2.0	.5	---	---	4.0	1.5
MONTH	8.5	1.0	3.5	.5	3.0	.5	3.5	.0	7.5	.0	6.5	.5

15295700 TERROR RIVER AT MOUTH NEAR KODIAK--Continued

TEMPERATURE. WATER (DEG. C), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	4.5	1.0	6.5	1.5	9.0	2.5	7.0	5.0	10.5	7.5	8.5	5.0
2	4.5	1.5	6.0	1.5	8.5	3.0	6.5	5.0	11.5	7.5	9.0	5.5
3	5.0	1.0	4.0	2.0	8.5	2.5	9.0	5.0	11.0	8.0	9.0	5.5
4	3.5	.5	4.5	2.0	8.5	3.0	10.5	4.5	12.5	8.0	8.0	5.5
5	5.0	1.0	6.0	1.5	7.5	3.0	9.0	5.0	10.0	8.0	8.0	6.5
6	4.0	1.0	5.5	1.0	8.0	3.0	10.5	5.5	9.5	8.0	8.0	6.5
7	4.5	1.0	5.5	2.0	5.0	4.0	10.0	5.0	10.5	7.5	7.5	6.5
8	3.0	1.0	7.0	2.0	7.0	3.5	9.0	5.5	11.5	7.5	9.5	7.0
9	1.5	1.0	7.5	2.0	6.5	3.5	9.0	5.5	12.0	7.5	8.0	6.5
10	4.0	.5	7.5	2.0	6.0	3.5	8.0	5.0	10.0	7.5	9.5	6.5
11	3.5	.0	7.5	2.0	7.0	3.5	8.0	6.0	10.5	8.0	8.0	5.5
12	3.0	1.0	7.5	1.5	8.5	3.5	8.5	5.5	11.5	7.5	8.0	6.5
13	3.0	1.0	7.5	1.5	6.0	4.0	7.5	4.5	11.5	7.0	8.0	6.5
14	4.0	1.5	4.5	2.5	6.0	3.5	7.5	5.5	11.5	7.5	8.5	7.5
15	5.0	1.5	5.5	3.0	7.0	4.0	7.0	5.5	12.0	7.5	8.0	7.0
16	5.0	1.0	4.5	2.5	8.0	4.5	8.0	5.5	11.5	7.5	8.5	7.5
17	5.0	1.0	3.0	2.5	5.5	4.0	9.5	6.5	9.5	8.5	9.0	6.5
18	5.0	1.0	4.0	2.5	7.0	4.0	8.0	6.5	9.5	8.5	8.5	6.5
19	5.0	1.0	5.0	2.5	6.5	4.0	8.0	6.0	10.5	7.5	7.5	5.5
20	4.0	1.5	7.5	2.0	9.0	4.5	10.0	6.0	8.5	7.0	7.0	5.0
21	4.0	.5	6.0	2.0	7.0	4.5	11.0	6.5	10.5	8.0	7.5	5.0
22	1.5	.5	6.0	3.0	10.0	4.5	9.0	7.0	10.5	8.5	8.5	7.0
23	3.0	.5	6.5	3.0	7.0	5.0	8.0	6.5	9.5	8.0	8.0	7.5
24	5.0	.5	6.5	2.5	5.5	4.0	8.0	6.5	11.0	8.5	8.5	7.0
25	4.0	1.0	6.5	2.5	5.5	4.0	10.0	6.0	10.0	7.5	8.0	5.5
26	4.5	2.0	6.0	2.5	6.0	4.5	11.0	7.0	9.0	6.0	8.5	7.0
27	5.5	2.0	6.5	3.0	7.5	4.0	8.5	7.0	8.0	6.0	8.0	6.5
28	4.5	1.5	5.5	3.5	9.5	4.5	9.0	7.0	8.0	6.5	8.5	7.0
29	4.5	2.0	6.5	2.5	6.5	5.0	8.0	7.0	7.5	6.5	8.0	7.0
30	4.5	1.5	7.0	3.5	7.0	4.5	9.5	7.0	8.5	5.5	8.0	6.5
31	---	---	8.0	2.5	---	---	8.5	7.0	7.5	5.0	---	---
MONTH	5.5	.0	8.0	1.0	10.0	2.5	11.0	4.5	12.5	5.0	9.5	5.0
YEAR	12.5	.0										

15296480 LARSEN BAY CREEK NEAR LARSEN BAY

LOCATION.--Lat 57°30'57", long 153°59'08", in NE¼SE¼ sec.6, T.31 S., R.29 W., Kodiak Island Borough, Hydrologic Unit 19050001, on Kodiak Island, on left bank 1.5 mi upstream from mouth and 1.6 mi south of Larsen Bay.

DRAINAGE AREA.--3.92 mi².

PERIOD OF RECORD.--August 1980 to September 1984 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 800 ft, from topographic map.

REMARKS.--Records fair except those for period of no gage-height record, Jan. 17 to Apr. 10, which are poor. Several observations of water temperature were made during the year.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 60 ft³/s, Oct. 21, 1980, gage height, 4.92 ft; maximum gage height, 5.11 ft Oct. 31, 1983, backwater from ice; minimum daily discharge, about 2.2 ft³/s Feb. 21-25, 1984.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 47 ft³/s Nov. 7, gage height, 5.01 ft; maximum gage height, 5.11 ft Oct. 31, backwater from ice; minimum daily discharge, about 2.2 ft³/s Feb. 21-25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.6	10	30	4.7	2.5	2.4	7.6	12	20	8.9	4.8	6.6
2	8.2	9.6	26	4.9	2.5	2.3	7.3	12	22	8.9	4.7	6.3
3	6.9	9.3	23	4.5	2.5	2.3	6.9	11	22	8.9	4.7	6.3
4	6.6	8.9	21	4.5	2.5	2.5	6.8	10	22	8.2	4.5	6.3
5	6.6	8.5	19	4.5	2.4	2.7	6.7	10	25	8.0	4.5	6.1
6	6.9	8.5	18	4.5	2.4	2.8	6.6	10	24	7.8	4.4	6.1
7	6.9	22	16	4.5	2.4	3.0	6.6	9.6	23	7.4	4.4	6.1
8	6.9	18	15	4.7	2.4	7.0	8.0	9.5	22	7.4	4.2	6.3
9	8.0	24	14	4.5	2.4	14	7.5	9.5	20	7.4	4.2	6.1
10	14	28	14	4.4	2.4	12	7.1	9.5	19	7.4	4.2	5.8
11	21	26	12	4.4	2.4	10	6.0	10	18	7.7	4.2	5.6
12	18	24	12	6.6	2.4	9.7	6.1	11	17	7.4	4.2	5.6
13	18	20	11	6.1	2.3	9.3	5.8	12	16	7.2	4.0	5.6
14	17	18	11	5.6	2.3	9.0	5.8	13	14	6.9	4.0	5.6
15	16	16	10	4.0	2.3	9.0	5.6	14	14	6.6	3.9	5.4
16	15	14	10	3.8	2.3	8.8	5.0	15	14	6.6	3.9	5.6
17	16	13	9.6	3.6	2.3	8.6	5.0	20	13	6.5	4.0	5.3
18	14	12	9.3	3.5	2.3	8.6	5.0	19	13	6.3	5.3	5.3
19	14	12	9.3	3.3	2.3	8.6	5.0	19	12	6.3	4.5	5.1
20	13	12	10	3.2	2.3	7.8	5.4	18	12	6.3	4.2	5.1
21	13	14	8.9	3.1	2.2	7.2	5.4	18	12	6.1	4.2	5.1
22	12	12	8.5	3.0	2.2	7.2	5.1	18	12	6.3	4.0	5.1
23	12	11	8.5	3.0	2.2	7.1	4.5	18	11	5.9	3.9	5.1
24	12	11	8.0	2.9	2.2	7.0	4.0	17	11	5.6	9.2	5.1
25	11	11	7.5	2.8	2.2	7.5	3.9	17	10	5.6	9.3	4.9
26	11	11	7.0	2.8	3.0	8.0	5.3	17	10	5.6	6.9	5.1
27	11	11	6.5	2.7	2.7	8.4	8.0	17	10	5.4	6.9	4.9
28	10	22	5.5	2.7	2.5	8.7	8.5	17	10	5.3	6.9	4.9
29	10	24	5.2	2.6	2.4	9.0	12	17	9.6	5.1	7.4	4.9
30	10	30	5.1	2.6	---	8.4	12	17	9.5	5.1	7.1	5.1
31	10	---	4.7	2.5	---	8.0	---	18	---	4.9	6.6	---
TOTAL	360.6	470.8	375.6	120.5	69.2	226.9	194.5	445.1	467.1	209.0	159.2	166.4
MEAN	11.6	15.7	12.1	3.89	2.39	7.32	6.48	14.4	15.6	6.74	5.14	5.55
MAX	21	30	30	6.6	3.0	14	12	20	25	8.9	9.3	6.6
MIN	5.6	8.5	4.7	2.5	2.2	2.3	3.9	9.5	9.5	4.9	3.9	4.9
CFSM	2.96	4.01	3.09	.99	.61	1.87	1.65	3.67	3.98	1.72	1.31	1.42
IN.	3.42	4.47	3.56	1.14	.66	2.15	1.85	4.22	4.43	1.98	1.51	1.58
AC-FT	715	934	745	239	137	450	386	883	926	415	316	330

CAL YR 1983 TOTAL 3357.5 MEAN 9.20 MAX 30 MIN 2.8 CFSM 2.35 IN 31.85 AC-FT 6660
WTR YR 1984 TOTAL 3264.9 MEAN 8.92 MAX 30 MIN 2.2 CFSM 2.28 IN 30.98 AC-FT 6480

15297100 HIDDEN BASIN CREEK NEAR PORT LIONS

LOCATION.--Lat 57°35'42", long 153°00'45", in NW¼ sec.8, T.30 S., R.23 W., Kodiak Island Borough, Hydrologic Unit 19050001, on Kodiak Island, on left bank 150 ft upstream from right bank tributary, 300 ft upstream from canyon, 6.5 mi upstream from mouth, and 20 mi south of Port Lions.

DRAINAGE AREA.--3.01 mi².

PERIOD OF RECORD.--August 1982 to January 1984 (discontinued).

GAGE.--Water stage recorder. Altitude of gage is 1,500 ft, from topographic map.

REMARKS.--Records fair except those for period of no gage-height record, Nov. 2 to Dec. 1, and those below 2.0 ft³/s, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 555 ft³/s Sept. 17, 1982, gage height, 3.40 ft, from rating curve extended above 110 ft³/s; minimum daily, about 1.0 ft³/s Jan. 2-3 and 31, 1984.

EXTREMES FOR CURRENT PERIOD.--October 1983 to January 1984: Maximum daily discharge, about 150 ft³/s Nov. 29; minimum daily, about 1.0 ft³/s Jan. 2-3 and Jan. 31.

DISCHARGE, IN CUBIC FEET PER SECOND, OCTOBER 1983 TO JANUARY 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31	4.9	40	1.3								
2	38	6.0	26	1.2								
3	23	7.0	22	1.3								
4	14	10	17	6.0								
5	12	30	15	1.9								
6	12	100	14	1.3								
7	11	80	12	1.0								
8	9.7	70	10	1.0								
9	12	100	9.4	1.4								
10	44	60	8.9	1.2								
11	42	30	7.8	1.3								
12	16	20	7.4	35								
13	13	15	6.9	24								
14	17	14	6.7	7.4								
15	103	13	6.5	4.7								
16	92	12	6.0	3.9								
17	71	11	5.6	3.2								
18	45	10	5.4	2.8								
19	35	9.0	5.3	8.9								
20	25	10	10	2.3								
21	24	12	8.9	1.8								
22	15	10	6.0	5.1								
23	15	10	5.8	6.7								
24	12	10	5.8	6.9								
25	9.7	10	5.3	8.1								
26	8.9	11	5.0	24								
27	8.1	15	4.0	2.0								
28	7.1	50	4.0	1.3								
29	6.5	150	4.0	1.2								
30	6.2	70	3.3	1.1								
31	5.1	---	1.4	1.0								
TOTAL	783.3	959.9	295.4	170.3								
MEAN	25.3	32.0	9.53	5.49								
MAX	103	150	40	35								
MIN	5.1	4.9	1.4	1.0								
CFSM	8.41	10.6	3.17	1.82								
IN.	9.68	11.86	3.65	2.10								
AC-FT	1550	1900	586	338								

CAL YR 1983 TOTAL 13745.8 MEAN 37.7 MAX 245 MIN 1.4 CFSM 12.5 IN 169.83 AC-FT 27260

15297110 HIDDEN BASIN CREEK NEAR MOUTH NEAR KODIAK

LOCATION.--Lat 57°33'48", long 152°57'33", in SW¼SW¼ sec.22, T.30 S., R.23 W., Kodiak Island Borough, Hydrologic Unit 19050001, on Kodiak Island, on right bank 3.3 mi upstream from mouth and 17 mi south of Kodiak.

DRAINAGE AREA.--11.9 mi^2.

PERIOD OF RECORD.--March 1983 to January 1984 (discontinued).

GAGE.--Water-stage recorder. Altitude of gage is 200 ft, from topographic map.

REMARKS.--Records fair except those for periods of no gage-height record, Mar. 1 to May 3 and Oct. 24 to Dec. 2, which are poor. Several observations of water temperature were made during the period.

EXTREMES FOR CURRENT PERIOD.--March to September 1983: Maximum discharge during period, 507 ft^3/s June 27, gage height, 4.98 ft, from rating curve extended above 220 ft^3/s; minimum daily, about 6.0 ft^3/s Mar. 9-12.

October 1983 to January 1984: Maximum discharge during period, 578 ft^3/s Nov. 30, gage height, 5.27 ft, from rating curve extended above 220 ft^3/s; minimum discharge, 4.4 ft^3/s Jan. 8.

DISCHARGE, IN CUBIC FEET PER SECOND, MARCH TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1						13	20	60	256	293	254	79
2						11	18	54	224	248	268	80
3						10	16	50	205	218	246	104
4						9.0	15	47	189	219	240	87
5						8.0	15	38	184	240	330	58
6						7.5	14	34	216	248	263	51
7						7.0	13	45	252	315	241	56
8						6.5	13	56	232	415	276	50
9						6.0	13	93	228	313	204	43
10						6.0	13	345	218	262	163	45
11						6.0	12	336	198	244	141	40
12						6.0	12	241	226	260	135	36
13						6.5	12	203	248	300	124	88
14						7.0	12	214	276	312	119	69
15						7.5	12	208	253	305	106	46
16						8.0	12	300	224	418	103	35
17						8.5	12	212	240	403	141	30
18						9.0	12	167	240	318	146	90
19						10	13	154	246	274	114	103
20						11	14	138	331	231	94	112
21						15	15	157	418	209	92	101
22						20	18	144	379	246	102	82
23						30	21	138	383	251	112	64
24						23	24	141	384	360	113	42
25						19	27	131	384	308	103	31
26						21	29	135	394	250	87	29
27						25	34	236	431	224	75	30
28						27	40	205	408	207	87	36
29						25	45	224	384	286	89	107
30						23	54	228	369	439	103	92
31						22	---	286	---	295	92	---
TOTAL						413.5	580	5020	8620	8911	4763	1916
MEAN						13.3	19.3	162	287	287	154	63.9
MAX						30	54	345	431	439	330	112
MIN						6.0	12	34	184	207	75	29
CFSM						1.12	1.62	13.6	24.1	24.1	12.9	5.36
IN.						1.29	1.81	15.67	26.90	27.81	14.86	5.98
AC-FT						820	1150	9960	17100	17670	9450	3800

15297110 HIDDEN BASIN CREEK NEAR MOUTH NEAR KODIAK--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, OCTOBER 1983 TO JANUARY 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	78	16	300	11								
2	92	25	100	13								
3	67	25	57	10								
4	49	25	46	8.4								
5	41	50	40	6.4								
6	36	300	35	5.6								
7	30	250	34	5.3								
8	29	250	36	4.6								
9	30	300	32	18								
10	86	200	27	22								
11	131	100	22	17								
12	77	80	18	206								
13	53	60	13	266								
14	61	50	11	120								
15	326	45	11	62								
16	233	40	10	39								
17	220	35	8.4	29								
18	152	30	7.0	22								
19	113	25	8.8	14								
20	89	30	27	15								
21	92	40	37	13								
22	67	35	27	12								
23	57	30	21	18								
24	45	30	17	39								
25	40	30	14	71								
26	35	35	12	150								
27	30	35	8.7	143								
28	25	40	8.1	125								
29	22	200	8.7	140								
30	20	510	7.5	7.5								
31	18	---	6.4	5.3								
TOTAL	2444	2921	1010.6	1618.1								
MEAN	78.8	97.4	32.6	52.2								
MAX	326	510	300	266								
MIN	18	16	6.4	4.6								
CFSM	6.61	8.17	2.74	4.38								
IN.	7.63	9.12	3.15	5.05								
AC-FT	4850	5790	2000	3210								

15297200 MYRTLE CREEK NEAR KODIAK

LOCATION.--Lat 57°36'12", long 152°24'12", in NE¼SW¼ sec.6, T.30 S., R.19 W., Kodiak Island Borough, Hydrologic Unit 19050001, on Kodiak Island, on left bank 0.1 mi upstream from bridge, 0.3 mi upstream from mouth, and 13 mi south of Kodiak.

DRAINAGE AREA.--4.74 mi².

PERIOD OF RECORD.--May 1963 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 20 ft, from topographic map. Prior to Apr. 4, 1977 at site 200 ft downstream on right bank at same datum.

REMARKS.--Records good except those for Jan. 22 to Mar. 3, which are poor. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--21 years, 46.2 ft³/s, 132.36 in/yr, 33,470 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,350 ft³/s Jan. 3, 1977, gage height, 5.61 ft at site then in use, 6.93 ft from floodmarks at present site, from rating curve extended above 400 ft³/s on the basis of slope-area measurement of peak flow; maximum gage height, 8.40 ft Mar. 28, 1964, at site then in use, tidal wave caused by earthquake; minimum daily discharge, about 1.0 ft³/s Mar. 3-18, 1972.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 550 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
Nov. 28	1900	684	5.22	Sept.23	0200	653	5.12
Jan. 12	1330	*910	*5.85				

Minimum daily discharge, about 3.0 ft³/s Feb. 17-25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	29	85	85	117	6.0	4.5	33	55	23	42	13	4.3
2	32	100	57	76	5.5	10	29	41	24	43	12	4.3
3	25	46	44	53	5.5	20	24	33	23	35	11	4.1
4	21	69	38	50	5.0	49	24	30	22	30	11	4.1
5	17	44	34	30	5.0	186	24	26	21	25	12	4.3
6	15	34	33	25	4.5	89	21	24	20	20	11	4.2
7	13	282	34	21	4.5	63	20	23	23	17	8.6	5.1
8	12	160	38	21	4.0	109	21	27	19	15	7.9	58
9	12	173	34	52	4.0	346	37	34	19	13	7.2	27
10	23	131	29	48	3.5	320	29	37	34	12	6.9	19
11	30	82	26	106	3.5	195	23	38	29	12	6.3	14
12	25	53	21	665	3.5	116	20	35	24	11	6.0	13
13	21	40	17	241	3.5	73	20	32	59	10	5.5	20
14	53	31	16	81	3.5	52	19	33	52	9.7	5.1	68
15	260	27	16	49	3.5	64	17	183	37	9.3	4.8	38
16	197	23	14	41	3.5	97	15	333	30	9.3	4.6	47
17	214	19	12	48	3.0	92	14	397	28	8.6	4.3	34
18	85	17	12	35	3.0	73	12	176	24	7.9	7.2	27
19	72	16	31	29	3.0	56	11	101	21	7.2	6.3	22
20	49	81	270	24	3.0	41	11	62	19	6.9	5.1	18
21	59	193	163	21	3.0	38	9.7	49	17	6.6	5.4	16
22	44	84	69	20	3.0	53	9.3	40	136	12	5.4	81
23	32	54	45	17	3.0	39	8.9	34	15	88	5.1	348
24	27	41	34	15	3.0	38	8.6	34	29	125	5.7	81
25	21	69	28	14	3.0	44	8.6	33	149	60	5.1	122
26	18	60	22	12	4.0	46	16	29	166	38	5.1	55
27	22	74	19	10	5.5	43	100	28	69	29	4.8	45
28	18	474	18	9.0	5.0	37	96	34	42	23	4.8	77
29	16	352	19	8.0	5.0	41	273	32	40	19	5.1	64
30	14	136	17	7.0	---	41	88	26	44	16	4.8	105
31	12	---	25	6.5	---	36	---	23	---	14	4.6	---
TOTAL	1488	3050	1320	1951.5	115.0	2511.5	1042.1	2082	1258	774.5	211.7	1429.4
MEAN	48.0	102	42.6	63.0	3.97	81.0	34.7	67.2	41.9	25.0	6.83	47.6
MAX	260	474	270	665	6.0	346	273	397	166	125	13	348
MIN	12	16	12	6.5	3.0	4.5	8.6	23	15	6.6	4.3	4.1
CFSM	10.1	21.5	8.99	13.3	.84	17.1	7.32	14.2	8.84	5.27	1.44	10.0
IN.	11.68	23.93	10.36	15.31	.90	19.71	8.18	16.34	9.87	6.08	1.66	11.22
AC-FT	2950	6050	2620	3870	228	4980	2070	4130	2500	1540	420	2840

CAL YR 1983 TOTAL 18435.9 MEAN 50.5 MAX 474 MIN 3.1 CFSM 10.7 IN 144.66 AC-FT 36570
WTR YR 1984 TOTAL 17233.7 MEAN 47.1 MAX 665 MIN 3.0 CFSM 9.94 IN 135.22 AC-FT 34180

BEST COPY AVAILABLE

15297485 KIZHUYAK RIVER NEAR PORT LIONS

LOCATION.--Lat 57°42'38", long 152°52'06", in NE¼NE¼ sec.32, T.28 S., R.22 W., Kodiak Island Borough, Hydrologic Unit 19050001, on Kodiak Island, on right bank 1.3 mi upstream from mouth at Kizhuyak Bay and 10.8 mi south of Port Lions.

DRAINAGE AREA.--27.5 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1980 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 15 ft, from topographic map.

REMARKS.--Water-discharge records fair except those below 200 ft³/s, which are poor. The gates at Falls and Rolling Rock Creek dams were closed on Sept. 15 to divert some water to clean the power tunnel between Terror Lake and the power plant on Kizhuyak River. On Sept. 19, the outlet valves were closed to begin filling the tunnel. The intake gate on Terror Lake was opened Sept. 24. Falls and Rolling Rock Creeks were diverted into the power tunnel on Sept. 24 and 26, respectively. The diverted water helped fill Terror Lake reservoir.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,430 ft³/s Sept. 26, 1980, gage height, 10.65 ft, from rating curve extended above 700 ft³/s on basis of slope-area measurement at gage height, 10.60 ft; minimum daily, about 1.0 ft³/s Feb. 27 to Mar. 4 and Mar. 11-16, 1982.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,260 ft³/s Nov. 30, gage height, 9.56 ft; from rating curve extended as explained above; minimum discharge, 19.0 ft³/s Feb. 24.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	104	69	727	60	37	24	47	128	431	515	243	87
2	127	85	400	60	37	23	46	113	434	526	235	82
3	104	86	240	60	35	23	43	108	426	504	248	78
4	80	84	179	57	33	26	41	101	436	485	248	91
5	69	81	154	54	33	36	38	87	466	482	248	75
6	61	882	138	53	31	47	36	82	488	553	234	71
7	60	905	129	52	30	89	35	80	509	537	217	69
8	57	683	129	51	30	142	34	80	532	476	217	168
9	52	924	119	58	29	305	39	83	543	451	214	154
10	97	776	112	62	29	251	38	106	607	403	207	146
11	136	480	107	63	28	175	35	136	590	369	204	117
12	97	298	101	511	27	141	34	146	560	365	204	101
13	76	215	96	451	26	106	33	146	773	356	201	245
14	69	157	91	205	25	87	33	152	759	351	188	575
15	369	132	86	132	25	84	32	174	670	363	182	248
16	676	121	82	108	26	99	31	341	639	338	174	274
17	526	105	75	92	26	112	30	1290	632	330	177	234
18	390	95	73	80	24	104	30	1010	608	317	192	201
19	318	90	73	74	23	85	30	733	593	311	224	162
20	223	93	68	68	22	69	29	561	578	289	182	124
21	244	125	68	64	21	66	28	499	590	297	179	97
22	182	131	66	58	20	63	28	453	602	330	204	388
23	149	117	68	54	20	61	28	436	684	577	192	792
24	121	109	68	51	20	58	27	431	1020	527	201	221
25	100	110	68	47	20	57	27	424	1430	358	234	145
26	85	114	67	44	24	55	28	421	1920	309	186	177
27	83	115	64	42	26	55	30	416	742	286	141	182
28	78	115	62	39	26	52	35	421	374	285	115	192
29	73	1670	60	41	25	51	146	416	576	277	104	162
30	68	2200	58	39	---	51	162	420	513	258	99	182
31	64	---	54	38	---	48	---	431	---	248	93	---
TOTAL	4938	11167	3882	2868	778	2645	1253	10425	19725	12073	5987	5840
MEAN	159	372	125	92.5	26.8	85.3	41.8	336	658	389	193	195
MAX	676	2200	727	511	37	305	162	1290	1920	577	248	792
MIN	52	69	54	38	20	23	27	80	374	248	93	69
CFSM	5.78	13.5	4.55	3.36	.98	3.10	1.52	12.2	23.9	14.1	7.02	7.09
IN.	6.68	15.11	5.25	3.88	1.05	3.58	1.69	14.10	26.68	16.33	8.10	7.90
AC-FT	9790	22150	7700	5690	1540	5250	2490	20680	39120	23950	11880	11580

CAL YR 1983 TOTAL 98745 MEAN 271 MAX 2200 MIN 21 CFSM 9.86 IN 133.57 AC-FT 195900
WTR YR 1984 TOTAL 81581 MEAN 223 MAX 2200 MIN 20 CFSM 8.11 IN 110.35 AC-FT 161800

15297485 KIZHUYAK RIVER NEAR PORT LIONS--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1980 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: April 1980 to March 1981, October 1981 to current year.

INSTRUMENTATION.--Temperature recorder since Apr. 9, 1980.

REMARKS.--Periods of no record due to equipment malfunction. Recorded temperatures were found to be within 0.5°C of mean stream temperature based on three cross-sectional measurements, with a maximum variation of 0.4°C observed within the cross section. Several other field observations of water temperature were made during the year.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum recorded, 10.5°C Aug. 5, 1980, July 27, 1982, and Aug. 4, 9, 12, 14-16, and 24, 1984; minimum recorded, 0.5°C Dec. 31, 1980 and Mar. 8, 9, 1984.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum recorded, 10.5°C Aug. 4, 9, 12, 14-16, and 24; minimum recorded, 0.5°C Mar. 8, 9.

TEMPERATURE, WATER (DEG. C), DECEMBER 1983 TO SEPTEMBER 1984

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1					---	---	3.5	3.0	3.0	2.0	3.0	2.0
2					---	---	3.5	3.0	3.0	2.0	3.0	2.0
3					---	---	3.0	2.5	2.5	1.5	2.5	2.5
4					3.0	2.5	2.5	2.0	2.5	2.0	3.5	2.0
5					3.0	3.0	3.0	2.5	2.5	2.0	2.5	1.5
6					3.0	3.0	3.0	2.5	2.5	2.0	2.5	1.5
7					3.5	3.0	3.0	2.5	2.5	1.5	2.0	1.5
8					3.5	3.0	3.0	2.5	2.5	1.5	2.0	.5
9					3.5	3.0	3.0	3.0	2.5	1.5	1.5	.5
10					3.5	3.0	3.0	2.5	2.5	2.0	2.0	1.5
11					3.0	3.0	3.0	2.5	2.5	2.0	2.5	1.5
12					3.5	3.0	3.0	2.0	2.5	2.5	2.5	1.5
13					3.0	2.5	2.0	2.0	3.0	2.0	3.0	1.5
14					3.0	2.5	2.5	2.0	3.0	2.0	3.0	2.0
15					3.5	3.0	2.5	2.0	3.0	2.5	2.5	2.0
16					3.5	3.0	3.0	2.5	2.5	2.0	3.0	2.0
17					3.5	3.0	3.0	2.5	3.0	2.5	2.5	2.0
18					3.0	2.5	3.0	2.5	3.0	2.0	3.5	1.5
19					3.5	3.0	2.5	2.0	2.5	2.0	3.5	1.5
20					3.5	3.5	3.0	2.5	2.5	2.0	3.5	1.5
21					3.5	3.5	3.0	2.5	3.5	2.0	3.0	2.0
22					3.5	3.0	2.5	2.0	3.0	2.5	3.5	2.0
23					3.0	2.5	2.5	2.0	3.5	2.0	4.0	1.5
24					3.0	2.5	2.5	2.0	3.0	2.0	3.5	2.0
25					3.0	2.5	2.5	1.5	3.0	2.5	4.5	2.0
26					3.0	2.5	2.5	2.0	2.5	2.0	4.5	2.0
27					3.0	2.5	3.0	2.5	3.0	2.0	4.0	2.0
28					3.0	3.0	3.0	2.5	2.5	1.5	3.0	2.0
29					3.5	3.0	3.0	2.5	2.5	2.0	3.0	2.0
30					3.5	3.0	3.0	2.5	---	---	4.5	2.0
31					3.5	3.0	2.5	2.5	---	---	4.0	2.0
MONTH					3.5	2.5	3.5	1.5	3.5	1.5	4.5	.5

SOUTH-CENTRAL ALASKA

15297485 KIZHUYAK RIVER NEAR PORT LIONS--Continued

TEMPERATURE, WATER (DEG. C), DECEMBER 1983 TO SEPTEMBER 1984

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	4.0	2.0	4.5	1.5	6.5	3.0	5.5	4.0	9.0	6.5	7.5	6.0
2	4.0	2.0	5.5	2.0	6.5	3.0	5.5	4.5	9.5	7.0	8.0	6.0
3	4.5	2.0	4.0	2.0	6.5	3.0	7.0	4.0	9.0	7.0	8.0	6.0
4	3.0	2.0	3.5	2.0	6.5	3.5	8.0	4.5	10.5	7.0	7.0	6.0
5	4.5	2.0	5.0	2.0	7.0	3.5	7.5	4.5	8.5	7.5	7.0	6.0
6	4.5	2.0	4.5	2.0	6.5	3.5	8.5	5.0	8.5	7.0	7.0	6.0
7	5.0	2.0	4.5	2.5	4.5	3.5	8.5	5.0	10.0	7.0	6.5	6.0
8	3.0	2.0	5.5	2.0	6.0	3.5	8.0	5.0	10.0	7.0	8.5	6.5
9	2.5	1.0	6.0	2.5	5.0	3.5	7.5	5.0	10.5	7.0	8.0	7.0
10	4.5	1.5	6.0	2.0	4.5	3.5	7.5	5.0	9.5	7.0	9.5	6.5
11	5.0	1.5	6.0	2.0	5.5	3.5	6.5	5.5	9.0	7.5	8.5	6.5
12	3.0	2.0	6.0	2.0	6.5	3.5	7.0	5.5	10.5	7.0	7.5	6.5
13	2.5	1.5	6.0	2.0	5.0	3.5	6.5	4.5	10.0	7.0	7.5	7.0
14	4.0	2.0	4.5	3.0	4.5	3.5	6.0	5.5	10.5	7.0	7.5	7.0
15	4.5	2.0	4.0	3.0	5.5	3.5	6.5	5.5	10.5	7.0	7.5	7.0
16	4.5	1.5	3.5	2.5	6.0	3.5	7.0	5.5	10.5	7.5	8.0	7.0
17	4.5	2.0	3.0	2.5	4.5	4.0	7.5	6.0	9.0	8.0	8.5	6.5
18	4.5	1.5	3.5	2.5	5.5	4.0	7.0	5.5	9.0	8.0	8.0	6.5
19	4.0	1.5	4.0	2.5	5.5	3.5	7.0	5.5	10.0	7.5	8.0	6.5
20	3.0	2.0	5.5	2.0	6.5	4.0	7.5	5.5	8.5	7.0	7.5	6.0
21	4.0	1.5	4.5	2.5	6.5	4.0	9.0	6.0	10.0	7.5	7.5	6.0
22	3.0	1.5	4.5	2.5	8.0	4.0	7.0	6.0	10.0	8.0	7.5	6.5
23	3.0	1.5	5.0	3.0	5.5	4.0	7.5	6.0	9.0	8.0	7.5	7.0
24	4.5	1.5	5.0	3.0	4.5	4.0	7.5	6.0	10.5	8.0	8.0	7.0
25	3.5	1.5	5.5	2.5	4.5	4.0	8.5	5.5	10.0	7.0	7.5	6.5
26	3.5	2.0	5.5	3.0	4.5	4.0	8.0	6.0	9.0	6.5	7.5	7.0
27	4.5	2.0	5.0	3.0	6.0	3.5	7.5	6.0	8.5	6.5	7.5	7.0
28	4.0	2.0	4.5	3.0	7.5	4.0	8.0	6.0	7.5	7.0	7.5	7.0
29	5.0	2.0	6.0	2.5	5.0	4.0	7.5	6.0	7.0	6.5	7.5	7.0
30	4.5	2.0	5.0	3.0	5.5	4.0	8.5	6.5	8.0	6.0	7.5	6.5
31	---	---	6.5	2.5	---	---	7.5	6.5	7.5	6.0	---	---
MONTH	5.0	1.0	6.5	1.5	8.0	3.0	9.0	4.0	10.5	6.0	9.5	6.0
YEAR	10.5	.5										

15297602 WHISKEY BILLS CREEK NEAR SAND POINT

LOCATION.--Lat 55°18'57", long 160°30'36", Hydrologic Unit 19040003, on Popof Island, on right bank 0.2 mi downstream of reservoir, 0.2 mi upstream from mouth, and 2.0 mi south of Sand Point.

DRAINAGE AREA.--0.30 mi^2, approximately.

PERIOD OF RECORD.--August 1983 to March 1984 (discontinued).

GAGE.--Water-stage recorder and crest gage. Altitude of gage is 80 ft, from topographic map.

REMARKS.--Records fair. Small reservoir 0.2 mi upstream is no longer in use but will partially control flow. Several observations of water temperature were made during the year.

EXTREMES FOR CURRENT PERIOD.--August to September 1983: Maximum discharge during period, 1.1 ft^3/s Sept. 28, gage height, 0.25 ft; minimum discharge, 0.25 ft^3/s Aug. 11-13.

October 1983 to March 1984: Maximum discharge during period, 6.1 ft^3/s Dec. 21, gage height, 0.63 ft; minimum discharge, 0.08 ft^3/s Mar. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, AUGUST TO SEPTEMBER 1983
MEAN VALUES

DAY	SEP	DAY	AUG	SEP	DAY	AUG	SEP	DAY	AUG	SEP
1	.53	9	---	.53	17	.34	.43	25	.44	.44
2	.53	10	---	.53	18	.44	.44	26	.44	.52
3	.53	11	.25	.53	19	.44	.52	27	.44	.62
4	.53	12	.25	.50	20	.44	.53	28	.46	.61
5	.53	13	.26	.35	21	.44	.53	29	.53	.73
6	.53	14	.41	.35	22	.44	.45	30	.53	.84
7	.53	15	.34	.43	23	.44	.44	31	.53	---
8	.53	16	.34	.34	24	.44	.44			

SEPTEMBER TOTAL - 15.34 MEAN - .51 MAX - .84 MIN - .34 CFSM - 1.70 IN. - 1.90 AC-FT - 30

DISCHARGE, IN CUBIC FEET PER SECOND, OCTOBER 1983 TO MARCH 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.2	.60	3.5	1.6	2.2	.22						
2	1.2	.42	3.1	1.5	1.9	.19						
3	1.2	.34	2.8	1.1	1.6	.17						
4	1.2	.25	2.5	1.1	1.4	.17						
5	1.1	.38	2.4	1.7	1.1	.33						
6	.96	1.9	2.4	1.2	.97	.47						
7	.94	2.1	3.5	1.3	.84	.50						
8	.99	2.2	3.9	1.0	.70	.50						
9	1.3	2.3	3.7	.95	.67	.57						
10	1.7	2.1	3.0	.92	.59	.66						
11	1.8	2.0	2.4	.85	.50	.69						
12	1.6	1.9	2.0	.76	.42	.94						
13	1.7	1.9	1.7	.67	.33	1.4						
14	1.9	1.7	1.7	.67	.32	1.5						
15	2.3	1.6	1.7	.58	.24	1.3						
16	3.5	1.6	1.4	.66	.23	1.1						
17	3.0	1.4	1.3	.58	.23	1.3						
18	2.6	1.3	1.2	.54	.23	1.3						
19	2.3	1.4	1.7	.42	.23	1.1						
20	2.0	2.7	2.1	.48	.23	---						
21	1.6	2.7	4.2	.65	.23	---						
22	1.5	2.9	5.2	.52	.23	---						
23	1.3	2.7	4.5	.50	.23	---						
24	1.2	3.0	3.8	.52	.23	---						
25	1.0	2.5	3.0	.82	.23	---						
26	1.2	2.4	2.4	.74	.23	---						
27	.98	3.1	2.0	.69	.23	---						
28	.77	4.3	1.8	1.2	.23	---						
29	.73	4.8	1.9	1.8	.15	---						
30	.66	4.5	1.7	2.2	---	---						
31	.67	---	1.6	2.5	---	---						
TOTAL	46.10	62.99	80.1	30.72	16.92	---						
MEAN	1.49	2.10	2.58	.99	.58	---						
MAX	3.5	4.8	5.2	2.5	2.2	---						
MIN	.66	.25	1.2	.42	.15	---						
CFSM	4.97	7.00	8.60	3.30	1.93	---						
IN.	5.70	7.78	9.90	3.80	2.09	---						
AC-FT	91	125	159	61	34	---						

15297603 HUMBOLT CREEK AT SAND POINT

LOCATION.--Lat 55°20'33", long 160°29'03", in SW¼SW¼ sec.9, T.56 S., R.73 W., Hydrologic Unit 19040003, on Popof Island, on left bank 40 ft downstream of Airport Road and earthfill dam, 0.2 mi upstream from mouth, and 0.5 mi east of Sand Point.

DRAINAGE AREA.--5.2 mi^2, approximately.

PERIOD OF RECORD.--August 1983 to March 1984 (discontinued).

GAGE.--Water-stage recorder and rain gage recorder. Altitude of gage is 55 ft, from topographic map.

REMARKS.--Records fair except those for the periods of no gage-height record, Dec. 5 to Jan. 17 and Feb. 6 to Mar. 19, which are poor. Water is diverted from a reservoir 100 ft upstream of gage for city water supply. Outflow from the reservoir is partially regulated by a headgate on the lower of four culverts. Recording rain gage at station, daily values of precipitation available from WATSTORE.

EXTREMES FOR CURRENT PERIOD.--August to September 1983: Maximum discharge during period, 55 ft^3/s Sept. 29, gage height, 2.00 ft; minimum daily, 3.2 ft^3/s Sept. 17.

October 1983 to March 1984: Maximum discharge during period, 157 ft^3/s Nov. 27, 28, gage height, 2.94 ft; minimum daily, about 4 ft^3/s Feb. 25 to Mar. 2.

DISCHARGE, IN CUBIC FEET PER SECOND, AUGUST TO SEPTEMBER 1983
MEAN VALUES

DAY	SEP	DAY	AUG	SEP	DAY	AUG	SEP	DAY	AUG	SEP
1	4.2	9	---	6.0	17	9.9	3.2	25	4.9	4.0
2	4.2	10	5.3	6.0	18	9.9	16	26	4.9	4.0
3	4.2	11	5.1	4.0	19	9.6	9.6	27	4.9	25
4	4.2	12	7.8	5.0	20	9.6	12	28	4.9	10
5	4.2	13	6.0	6.5	21	14	6.8	29	4.2	33
6	4.2	14	9.3	4.2	22	8.7	5.1	30	4.2	13
7	4.2	15	10	3.7	23	5.1	4.4	31	4.2	---
8	4.2	16	9.9	3.3	24	4.9	4.0			

SEPTEMBER TOTAL - 222.4 MEAN - 7.41 MAX - 33 MIN - 3.2 AC-FT - 441

DISCHARGE, IN CUBIC FEET PER SECOND, OCTOBER 1983 TO MARCH 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	30	54	30	26	4.0						
2	22	17	43	25	22	4.5						
3	13	13	47	20	17	4.5						
4	13	12	38	17	16	5.0						
5	12	12	40	20	16	8.0						
6	11	58	50	25	15	15						
7	10	31	70	30	14	25						
8	11	22	80	25	13	20						
9	13	26	70	20	12	15						
10	18	26	50	18	11	10						
11	30	21	45	16	10	15						
12	18	20	40	14	8.0	13						
13	18	27	35	12	7.0	10						
14	20	26	30	11	6.0	20						
15	26	22	28	11	5.0	18						
16	34	20	26	13	4.5	16						
17	30	17	25	11	4.5	14						
18	26	16	26	10	5.0	15						
19	23	15	40	9.2	5.0	16						
20	19	74	90	11	5.0	---						
21	16	34	110	34	5.0	---						
22	14	28	90	13	5.0	---						
23	13	24	80	15	4.5	---						
24	12	40	65	15	4.5	---						
25	12	33	50	27	4.0	---						
26	18	31	40	21	4.0	---						
27	17	49	30	16	4.0	---						
28	15	93	35	53	4.0	---						
29	13	69	40	65	4.0	---						
30	14	67	45	37	---	---						
31	17	---	40	29	---	---						
TOTAL	554	973	1552	673.2	261.0	---						
MEAN	17.9	32.4	50.1	21.7	9.00	---						
MAX	34	93	110	65	26	---						
MIN	10	12	25	9.2	4.0	---						
AC-FT	1100	1930	3080	1340	518	---						

15297610 RUSSELL CREEK NEAR COLD BAY

LOCATION.--Lat 55°10'50", long 162°41'08", Hydrologic Unit 19040003, on left bank 0.2 mi southeast of Russell Creek Fish Hatchery, 1.5 mi upstream from mouth, and 2.5 mi southeast of Cold Bay.

DRAINAGE AREA.--25 mi², approximately.

PERIOD OF RECORD.--October 1981 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 3.55 ft National Geodetic Vertical Datum of 1929 (levels by private engineering firm).

REMARKS.--Records good except those for Oct. 1-31 and Feb. 3 to Mar. 15, which are poor. Some water diverted through hatchery and returned to the stream upstream from gage.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 6,000 ft³/s Oct. 22, 1981, gage height, 11.19 ft, estimate of peak flow by slope-area methods; minimum discharge, 49 ft³/s Mar. 13 and 14, 1983.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,540 ft³/s Dec. 20, gage height, 9.55, ft from rating curve extended above 610 ft³/s on basis of slope-area measurement of peak flow; minimum discharge, 75 ft³/s Apr. 17.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	400	218	314	274	153	100	132	129	177	281	368	183
2	200	179	284	249	145	100	127	116	201	264	556	254
3	150	171	332	228	120	100	131	109	338	261	345	191
4	150	169	325	243	120	110	143	106	275	307	244	173
5	140	212	896	228	120	120	132	109	216	354	223	383
6	140	500	470	246	120	210	126	116	213	419	220	412
7	130	243	410	454	120	270	127	116	199	598	201	565
8	130	228	393	351	120	180	115	112	183	525	208	415
9	500	220	344	268	110	150	115	112	245	375	279	373
10	350	225	291	237	110	150	115	115	210	336	294	265
11	200	271	264	223	110	130	109	113	194	328	325	231
12	180	216	240	215	110	130	97	115	206	294	235	208
13	700	192	223	199	110	120	92	165	223	297	208	188
14	600	171	246	196	110	120	93	414	243	261	208	213
15	300	181	357	299	110	120	95	260	228	234	203	324
16	180	194	463	221	110	126	99	207	237	255	201	235
17	180	179	537	203	110	126	99	188	261	252	251	213
18	180	171	444	185	110	121	99	189	234	271	271	203
19	160	171	675	177	110	121	95	190	225	274	225	173
20	150	710	1180	175	110	110	93	192	223	237	279	163
21	140	538	1910	179	110	138	90	185	213	277	277	643
22	150	320	1990	181	110	126	89	165	367	294	240	250
23	150	265	1040	196	110	121	92	150	409	271	261	200
24	160	654	638	190	110	127	90	145	359	234	543	180
25	160	382	534	171	100	157	97	141	265	213	295	170
26	350	358	444	150	100	143	126	138	249	249	189	160
27	300	325	394	148	100	126	174	152	320	277	251	160
28	220	636	350	283	100	124	185	148	471	261	210	160
29	220	407	362	219	100	115	152	141	413	274	233	800
30	220	333	362	190	---	112	138	148	344	287	169	1200
31	210	---	298	165	---	124	---	157	---	255	157	---
TOTAL	7400	9039	17010	6943	3278	4127	3467	4843	7941	9315	8169	9288
MEAN	239	301	549	224	113	133	116	156	265	300	264	310
MAX	700	710	1990	454	153	270	185	414	471	598	556	1200
MIN	130	169	223	148	100	100	89	106	177	213	157	160
CFSM	9.56	12.0	22.0	8.96	4.52	5.32	4.64	6.24	10.6	12.0	10.6	12.4
IN.	11.01	13.45	25.31	10.33	4.88	6.14	5.16	7.21	11.82	13.86	12.15	13.82
AC-FT	14680	17930	33740	13770	6500	8190	6880	9610	15750	18480	16200	18420

CAL YR 1983 TOTAL 87045 MEAN 238 MAX 1990 MIN 62 CFSM 9.52 IN 129.52 AC-FT 172700
WTR YR 1984 TOTAL 90820 MEAN 248 MAX 1990 MIN 89 CFSM 9.92 IN 135.13 AC-FT 180100

NOTE.--No gage-height record Oct. 1-31.

15297900 ESKIMO CREEK AT KING SALMON

LOCATION.--Lat 58°41'08", long 156°40'08", in SW¼ sec.23, T.17 S., R.44 W., Hydrologic Unit 19040002, on right bank 30 ft upstream from culvert on King Salmon-Naknek road 0.3 mi upstream from mouth and 0.3 mi northwest of King Salmon post office.

DRAINAGE AREA.--16.1 mi^2.

PERIOD OF RECORD.--Annual maximums, water years 1965-67, 1969-73. October 1973 to September 1976 and October 1977 to September 1984 (discontinued).

GAGE.--Water-stage recorder, crest-stage gage, and culvert control. Altitude of gage is 20 ft, from topographic map. Prior to Oct. 18, 1973, crest-stage gage on right bank at datum 2.69 ft lower.

REMARKS.--Records fair except those for period of no gage-height, Oct. 25 to May 22, which are poor.

AVERAGE DISCHARGE.--10 years (water years 1974-76, 1978-84), 12.8 ft^3/s, 10.79 in/yr, 9,270 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 227 ft^3/s June 1967, gage height, 8.51 ft, present datum, from rating curve extended above 110 ft^3/s on basis of computation of peak flow through culvert; maximum gage height, 8.72 ft Aug. 19, 1976, backwater from beaver dam; minimum daily discharge, about 1.5 ft^3/s Jan. 13-17, 1980.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 94 ft^3/s June 2, gage height, 7.81 ft; minimum recorded, 3.8 ft^3/s Aug. 6, but may have been less during period of no gage height record, Feb. 11-16.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	10	24	12	6.4	8.5	15	24	54	6.5	5.1	11
2	22	10	22	12	5.8	14	15	23	88	6.3	5.5	9.4
3	24	10	19	11	5.4	20	14	22	72	6.3	5.5	8.5
4	23	11	17	11	5.0	22	14	20	55	6.3	5.1	8.1
5	20	12	16	11	4.8	24	14	19	41	6.3	5.1	7.7
6	18	13	15	11	4.6	25	14	17	33	6.0	4.8	7.3
7	15	14	14	11	4.4	26	14	16	35	5.8	4.9	7.3
8	14	16	13	12	4.3	26	14	16	34	5.6	4.6	7.3
9	19	18	13	12	4.2	25	14	15	34	5.6	4.6	7.5
10	30	19	12	13	4.1	25	15	14	34	5.8	4.3	7.3
11	47	18	12	13	4.0	24	15	14	26	6.0	6.3	7.3
12	67	17	12	13	4.0	23	16	14	19	5.8	6.5	7.1
13	59	16	12	13	4.0	22	16	14	21	5.8	6.3	7.7
14	50	15	13	13	4.0	22	16	15	23	6.0	5.6	7.9
15	43	14	13	12	4.0	21	15	15	24	5.6	5.1	7.9
16	35	13	13	11	4.0	21	15	15	23	5.5	4.8	7.5
17	27	13	13	10	4.1	20	15	14	24	5.8	4.3	6.9
18	21	12	13	9.0	4.1	20	15	14	25	5.1	4.8	6.7
19	18	11	13	8.0	4.2	19	15	13	23	5.1	4.9	6.3
20	14	11	13	7.0	4.4	18	15	13	23	6.3	4.6	6.7
21	12	10	13	6.5	4.6	18	16	12	29	7.5	5.5	7.1
22	11	11	12	6.0	5.2	17	20	11	27	7.5	7.7	6.7
23	13	12	12	5.6	5.6	17	24	11	24	7.5	7.9	6.7
24	13	14	12	5.6	5.6	17	27	10	23	6.0	13	6.5
25	12	16	12	5.6	5.6	16	29	10	14	5.6	18	6.5
26	12	19	12	5.8	5.8	16	29	10	8.4	6.0	22	6.3
27	11	22	12	6.0	6.0	16	28	9.4	5.6	5.8	23	6.0
28	11	25	12	6.4	7.0	16	27	9.6	5.5	5.1	21	5.6
29	10	30	12	6.8	7.5	15	26	12	6.5	4.9	16	5.6
30	10	27	13	6.8	---	15	25	16	6.5	4.9	14	6.1
31	10	---	13	6.8	---	15	---	31	---	5.1	12	---
TOTAL	710	459	427	292.9	142.7	603.5	547	469.0	860.5	183.4	262.8	216.5
MEAN	22.9	15.3	13.8	9.45	4.92	19.5	18.2	15.1	28.7	5.92	8.48	7.22
MAX	67	30	24	13	7.5	26	29	31	88	7.5	23	11
MIN	10	10	12	5.6	4.0	8.5	14	9.4	5.5	4.9	4.3	5.6
CFSM	1.42	.95	.86	.59	.31	1.21	1.13	.94	1.78	.37	.53	.45
IN.	1.64	1.06	.99	.68	.33	1.39	1.26	1.08	1.99	.42	.61	.50
AC-FT	1410	910	847	581	283	1200	1080	930	1710	364	521	429

CAL YR 1983 TOTAL 4130.5 MEAN 11.3 MAX 67 MIN 2.8 CFSM .70 IN 9.54 AC-FT 8190
WTR YR 1984 TOTAL 5174.3 MEAN 14.1 MAX 88 MIN 4.0 CFSM .88 IN 11.95 AC-FT 10260

15299900 TAZIMINA RIVER NEAR NONDALTON

LOCATION.--Lat 59°55'05", long 154°39'34", in SE¼NE¼ sec.18, T.3 S., R.31 W., Hydrologic Unit 19040002, on left bank at outlet of small lake, 2.1 mi upstream of large waterfall, 7.5 mi southeast of Nondalton, and 14.5 mi northeast of Iliamna.

DRAINAGE AREA.--327 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1981 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 610 ft, from topographic map. Prior to Oct. 1, 1981 at datum 3.00 ft higher.

REMARKS.--Records good except those for Jan. 2 to Mar. 13, which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,950 ft³/s Sept. 17, 1982, gage-height, 7.92 ft; minimum recorded, 124 ft³/s Apr. 1, 1983, but may have been less during period of ice effect.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 3,500 ft³/s Oct. 13, gage-height, 7.12 ft; minimum recorded, 189 ft³/ Apr. 19, but may have been less during period of ice effect.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1000	726	1270	300	210	210	255	327	893	2370	1020	1860
2	1180	711	1350	290	210	210	255	338	900	2270	1000	1660
3	1260	711	1340	280	210	210	250	334	940	2150	988	1500
4	1270	678	1310	280	210	250	245	327	1020	1980	980	1360
5	1260	631	1250	270	210	330	245	321	1120	1930	964	1240
6	1310	600	1170	260	210	390	245	321	1250	1910	972	1140
7	1310	636	1090	260	210	400	240	324	1380	1920	964	1060
8	1270	876	1000	250	210	410	238	330	1540	1930	948	997
9	1350	947	909	250	210	410	228	334	1650	1920	932	941
10	1710	924	852	240	210	400	221	346	1740	1860	908	880
11	2630	886	809	240	210	380	215	358	1790	1800	971	837
12	3340	851	756	240	210	360	215	366	1790	1720	980	795
13	3490	809	712	240	210	340	211	374	1810	1630	940	788
14	3270	754	680	230	210	327	211	386	1900	1590	900	767
15	2950	714	630	230	210	300	209	398	1970	1520	865	746
16	2630	704	597	230	210	290	207	425	2050	1440	830	725
17	2350	690	564	230	210	288	203	450	2230	1370	795	704
18	2100	666	534	230	210	283	203	470	2420	1370	816	697
19	1890	624	505	220	210	275	195	490	2450	1370	864	690
20	1740	606	500	220	210	270	195	522	2370	1370	886	690
21	1600	624	505	220	210	268	201	564	2300	1340	900	666
22	1470	618	475	220	210	265	207	612	2250	1280	1020	648
23	1360	594	450	220	210	260	203	660	2210	1250	1160	642
24	1260	547	430	220	210	255	201	710	2250	1210	1410	648
25	1140	528	410	220	210	250	195	759	2390	1180	2130	648
26	1040	522	390	210	210	250	197	802	2570	1130	3160	630
27	981	505	380	210	210	263	221	837	2610	1100	3370	624
28	917	557	360	210	210	265	279	858	2520	1080	3120	636
29	859	793	340	210	210	263	290	879	2440	1060	2790	666
30	816	1060	328	210	---	260	303	886	2420	1040	2420	666
31	774	---	309	210	---	258	---	893	---	1020	2110	---
TOTAL	51527	21092	22205	7350	6090	9190	6783	16001	57173	48110	42113	26551
MEAN	1662	703	716	237	210	296	226	516	1906	1552	1358	885
MAX	3490	1060	1350	300	210	410	303	893	2610	2370	3370	1860
MIN	774	505	309	210	210	210	195	321	893	1020	795	624
CFSM	5.08	2.15	2.19	.73	.64	.91	.69	1.58	5.83	4.75	4.15	2.71
IN.	5.86	2.40	2.53	.84	.69	1.05	.77	1.82	6.50	5.47	4.79	3.02
AC-FT	102200	41840	44040	14580	12080	18230	13450	31740	113400	95430	83530	52660

CAL YR 1983 TOTAL 286369 MEAN 785 MAX 3490 MIN 140 CFSM 2.40 IN 32.58 AC-FT 568000
WTR YR 1984 TOTAL 314185 MEAN 858 MAX 3490 MIN 195 CFSM 2.62 IN 35.74 AC-FT 623200

15299900 TAZIMINA RIVER NEAR NONDALTON--Continued

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: May 1982 to current year.

INSTRUMENTATION.--Temperature recorder since May 20, 1982.

REMARKS.--Periods of no record due to equipment malfunction. Recorded temperatures were found to be the same as mean stream temperatures based on one cross-sectional measurement, with no variation observed in the cross section.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum recorded, 18.5°C Aug. 16, 1984; minimum recorded, 0.0°C on most days during winter periods.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum recorded, 18.5°C Aug. 16; minimum recorded, 0.0°C on most days during winter period.

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
1	7.0	7.0	1.5	1.0	1.0	1.0	.0	.0			---	---
2	7.0	6.0	1.5	1.5	1.5	1.0	.0	.0			---	---
3	6.5	5.5	1.5	1.0	1.5	1.0	.0	.0			---	---
4	6.5	5.0	1.0	.5	1.0	1.0	.0	.0			---	---
5	6.0	5.5	1.0	.0	1.5	1.0	.0	.0			---	---
6	6.0	5.0	1.0	.0	1.5	1.0	.0	.0			---	---
7	5.5	4.5	1.0	1.0	1.5	1.0	.0	.0			---	---
8	5.0	4.5	1.5	1.0	1.0	.5	.0	.0			---	---
9	5.5	5.0	1.5	1.0	.5	.5	.0	.0			---	---
10	6.5	5.5	2.0	1.0	.5	.5	.0	.0			---	---
11	6.0	5.5	1.5	1.0	.5	.5	.0	.0			---	---
12	6.0	6.0	1.5	1.0	.5	.0	.0	.0			---	---
13	6.0	5.5	1.5	1.0	.5	.0	.0	.0			---	---
14	6.0	5.5	1.0	.5	.0	.0	.0	.0			---	---
15	6.0	5.5	1.0	.5	.0	.0	.0	.0			---	---
16	6.0	5.5	1.0	1.0	.0	.0	.0	.0			1.0	---
17	6.0	5.5	1.0	.5	.5	.0	.0	.0			1.5	.5
18	6.0	5.5	1.0	.0	.0	.0	.0	.0			2.0	.0
19	5.5	4.5	.5	.0	.5	.0	.0	.0			2.0	.0
20	5.0	4.5	1.0	.5	1.0	.5	.0	.0			2.5	.5
21	4.5	4.0	1.0	1.0	1.0	.5	.5	.0			3.0	.5
22	4.0	3.5	1.0	1.0	.5	.0	---	---			3.0	1.0
23	4.0	3.0	1.0	.0	.0	.0	---	---			2.5	.5
24	3.5	2.5	.5	.0	.0	.0	---	---			2.0	.5
25	2.5	1.5	.5	.5	.0	.0	---	---			3.0	1.0
26	1.5	1.0	1.0	.5	.0	.0	---	---			3.5	1.0
27	2.0	1.0	1.0	.5	.0	.0	---	---			2.5	1.5
28	1.5	1.0	1.5	1.0	.0	.0	---	---			3.0	1.5
29	1.5	1.5	2.0	1.0	.0	.0	---	---			3.5	1.5
30	1.5	1.0	1.5	1.0	.0	.0	---	---			3.5	1.0
31	1.5	1.0	---	---	.0	.0	---	---			3.0	1.5
MONTH	7.0	1.0	2.0	.0	1.5	.0	.5	.0			3.5	.0

15299900 TAZIMINA RIVER NEAR NONDALTON--Continued

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
	APRIL		MAY		JUNE		JULY		AUGUST		SEPTEMBER	
1	4.0	1.5	5.0	2.5	11.0	7.0	12.0	11.5	15.0	13.0	11.0	9.5
2	3.5	1.0	5.0	2.5	11.5	7.5	12.0	11.0	16.0	13.0	11.5	9.5
3	4.5	1.0	3.5	2.5	11.0	7.5	13.0	11.0	16.0	14.0	12.0	9.5
4	3.0	1.0	4.0	2.0	11.5	8.0	12.0	11.5	16.0	14.5	11.5	9.5
5	4.0	1.0	6.0	2.5	11.5	8.0	12.5	11.0	16.0	14.5	12.0	9.5
6	3.5	1.0	5.5	2.0	10.5	8.0	12.0	11.0	16.5	14.5	12.0	9.5
7	4.0	1.5	7.5	2.5	9.5	8.5	13.0	11.0	17.0	14.0	11.0	10.0
8	3.0	1.0	8.0	2.5	10.5	8.0	12.5	11.5	16.5	14.5	11.0	10.0
9	3.5	.5	8.5	2.0	10.5	7.5	13.0	11.5	16.5	14.5	11.5	10.0
10	3.5	.0	8.5	2.5	9.5	8.0	13.0	12.0	15.5	14.5	12.0	10.0
11	4.0	.0	8.5	2.5	10.0	8.5	13.5	12.0	16.5	14.5	11.5	10.0
12	4.0	1.0	8.5	2.5	11.0	9.0	14.0	12.0	17.0	14.5	10.5	10.0
13	3.0	.5	9.0	4.0	10.0	9.5	13.0	12.0	17.0	14.5	10.5	10.0
14	3.5	1.0	7.0	4.0	10.5	8.5	13.5	11.5	17.5	15.0	11.0	9.5
15	3.5	1.0	6.5	3.5	11.5	10.0	14.0	12.0	18.0	15.5	11.0	9.5
16	4.5	.5	6.5	5.0	12.0	10.0	15.0	12.5	18.5	13.5	11.5	9.0
17	4.5	.0	8.5	4.5	12.0	10.0	14.5	13.0	16.5	15.5	10.5	9.5
18	5.0	.0	9.0	5.0	11.0	9.5	13.0	12.5	15.5	15.0	11.0	9.5
19	5.5	.0	8.5	5.5	11.5	9.5	12.5	12.0	15.5	13.5	10.0	9.0
20	3.0	.0	10.0	5.5	12.0	10.5	12.0	11.5	14.5	13.5	10.0	8.5
21	3.0	.5	8.0	6.0	12.5	10.5	14.0	11.0	14.0	13.5	10.5	8.0
22	5.5	.5	9.0	6.0	12.5	11.0	13.5	12.0	13.5	13.0	8.5	8.0
23	5.5	.5	9.0	6.0	12.0	11.0	14.0	12.0	13.5	12.5	9.0	8.0
24	6.0	.0	9.5	6.5	11.5	11.0	14.5	12.5	13.0	12.5	9.5	8.5
25	3.5	.0	9.5	6.5	12.0	11.0	14.0	12.5	13.0	12.0	9.5	8.5
26	4.0	1.5	9.5	6.5	12.0	11.5	14.5	13.0	12.0	10.5	9.5	8.0
27	5.5	2.0	9.5	7.0	13.0	11.5	15.0	13.0	11.0	10.0	10.0	8.5
28	5.0	2.0	9.5	7.0	13.0	11.5	15.0	13.5	11.0	10.0	9.0	8.5
29	4.5	2.0	8.5	6.5	12.0	11.0	14.0	13.5	11.0	10.5	9.5	8.5
30	4.0	2.5	9.5	7.0	12.0	11.0	14.5	13.0	11.0	10.0	9.0	8.5
31	---	---	10.0	6.5	---	---	13.5	13.0	10.5	9.5	---	---
MONTH	6.0	.0	10.0	2.0	13.0	7.0	15.0	11.0	18.5	9.5	12.0	8.0
YEAR	18.5	.0										

15300000 NEWHALEN RIVER NEAR ILIAMNA

LOCATION.--Lat 59°51'34", long 154°52'24", in SW¼,NE¼ sec.1, T.4 S., R.33 W., Hydrologic Unit 19040002, on left bank 8 mi downstream from Fish Village and outlet of Sixmile Lake, 8 mi north of Iliamna, and 16 mi upstream from mouth.

DRAINAGE AREA.--3,478 mi².

PERIOD OF RECORD.--July 1951 to September 1967 and annual maximum, waters years 1968 to 1977. May 1982 to current year.

REVISED RECORDS.--WSP 2136: Drainage area.

GAGE.--Water-stage recorder. Altitude of gage is 210 ft, from topographic map. October 1967 to September 1977, crest-stage gage at same site and datum.

REMARKS.--Records good except those for the period of no gage-height record, Oct. 28 to Mar. 15, which are poor.

AVERAGE DISCHARGE.--18 years (water years 1952-67,1983-84), 9,192 ft³/s, 35.89 in/yr, 6,660,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 36,000 ft³/s Aug. 30, 1959, gage height, 9.19 ft; minimum daily, about 1,000 ft³/s Feb. 1 to Mar. 31, 1956.

EXTREMES FOR CURRENT YEAR.--Maximum discharge recorded, 20,200 ft³/s Aug. 29, gage height, 6.00 ft, but may have been greater during period of recorder malfunction Aug. 26-28; minimum recorded, 3,060 ft³/s Apr. 25, gage height, 1.13 ft, but may have been less during period of no gage-height record, Feb. 15 to Mar. 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1933 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7300	9200	6500	4800	3700	3300	3360	3290	6440	17700	17600	18600
2	7400	9200	6500	4800	3700	3300	3360	3340	6520	18000	17300	18000
3	7500	9200	6500	4800	3700	3300	3380	3360	6670	18100	17100	17500
4	7600	9200	6500	4800	3700	3300	3380	3340	6790	17900	17300	16900
5	7570	9200	6500	4800	3700	3300	3380	3360	7000	18100	17500	16400
6	7640	8700	6200	4600	3600	3300	3400	3380	7310	18100	17700	15900
7	7700	8700	6200	4600	3600	3300	3400	3440	7640	18400	18000	15500
8	7640	8700	6200	4600	3600	3300	3400	3540	8130	18700	18200	14600
9	7970	8700	6200	4600	3600	3300	3420	3580	8520	19000	18500	14500
10	8550	8700	6200	4600	3600	3300	3360	3660	8950	19100	18500	14100
11	9300	8200	5900	4400	3600	3300	3340	3710	9380	19200	18600	13700
12	10200	8200	5900	4400	3600	3300	3360	3730	9680	19100	18500	13300
13	11000	8200	5900	4400	3600	3300	3360	3730	10000	19000	18300	13100
14	11500	8200	5900	4400	3600	3300	3340	3800	10400	19000	18100	13200
15	11800	8200	5900	4400	3500	3300	3300	3900	10700	18700	17800	12600
16	12100	7700	5600	4200	3500	3380	3290	4000	11000	18600	17700	12300
17	12100	7700	5600	4200	3500	3380	3270	4100	11600	18100	17500	12100
18	12000	7700	5600	4200	3500	3360	3230	4200	12200	18200	17600	11900
19	11900	7700	5600	4200	3500	3340	3190	4300	12800	18300	17800	11700
20	11800	7700	5600	4200	3400	3340	3170	4500	13200	18300	17800	11500
21	11600	7200	5300	4100	3400	3340	3170	4670	13400	18200	17900	11200
22	11200	7200	5300	4100	3400	3380	3170	4770	13800	18100	18100	10900
23	11200	7200	5300	4100	3400	3360	3170	4970	14200	17900	17900	10800
24	11000	7200	5300	4100	3400	3340	3140	5130	14700	17800	18400	10600
25	10700	7200	5300	4100	3400	3320	3100	5280	15400	17800	18700	10300
26	10200	6800	5000	3900	3400	3340	3120	5500	16100	17700	19000	10100
27	10100	6800	5000	3900	3400	3380	3100	5670	16600	17700	20000	9830
28	9800	6800	5000	3900	3400	3380	3140	5860	17000	17600	20000	9570
29	9700	6800	5000	3900	3300	3420	3150	6030	17100	17500	20000	9350
30	9600	6800	5000	3900	---	3360	3190	6210	17600	17700	19600	9240
31	9400	---	5000	3900	---	3360	---	6350	---	17700	19200	---
TOTAL	305070	239000	177500	133900	102300	103280	98140	134700	340830	565300	566200	389290
MEAN	9841	7967	5726	4319	3528	3332	3271	4345	11360	18240	18260	12980
MAX	12100	9200	6500	4800	3700	3420	3420	6350	17600	19200	20000	18600
MIN	7300	6800	5000	3900	3300	3300	3100	3290	6440	17500	17100	9240
CFSM	2.83	2.29	1.65	1.24	1.01	.96	.94	1.25	3.27	5.24	5.25	3.73
IN.	3.26	2.56	1.90	1.43	1.09	1.10	1.05	1.44	3.65	6.05	6.06	4.16
AC-FT	605100	474100	352100	265600	202900	204900	194700	267200	676000	1121000	1123000	772200

CAL YR 1983 TOTAL 2847170 MEAN 7800 MAX 18400 MIN 2200 CFSM 2.24 IN 30.45 AC-FT 5647000
WTR YR 1984 TOTAL 3155510 MEAN 8622 MAX 20000 MIN 3100 CFSM 2.48 IN 33.75 AC-FT 6259000

15300500 KVICHAK RIVER AT IGIUGIG

LOCATION.--Lat 59°19'44", long 155°53'37", in NE¼ sec.7, T.10 S., R.39 W., Hydrologic Unit 19040002, on left bank 0.7 mi downstream from outlet of Iliamna Lake at Igiugig.

DRAINAGE AREA.--6,500 mi², approximately.

PERIOD OF RECORD.--August 1967 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 45 ft, from topographic map. Prior to Oct. 1, 1969, nonrecording gage at site 1,500 ft upstream at different datum.

REMARKS.--Records good except those for the period of no gage-height record, Dec.14 to Jan. 15, which are fair. Discharge affected by storage in Lake Iliamna, Lake Clark, and other smaller lakes covering over 1,100 mi².

AVERAGE DISCHARGE.--17 years, 17,870 ft³/s, 37.33 in/yr, 12,950,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 48,700 ft³/s Sept. 12, 1980, gage height, 23.64 ft; minimum daily, 6,400 ft³/s Apr. 21, 22, 1969.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 22,600 ft³/s Nov. 29, gage height, 20.65 ft; minimum, 8,180 ft³/s May 10, gage-height, 17.80 ft, from rating extended below 9,800 ft³/s, result of ice damming at lake outlet.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17200	17300	19000	16600	14700	12400	11300	9940	10200	13600	17100	19700
2	16600	17200	18800	16500	14600	12400	11200	9490	10300	13700	17400	19800
3	16500	16900	19000	16500	14600	12300	11200	9740	10200	13600	17200	19800
4	16400	16600	19100	16400	14600	12200	11200	9570	10200	13600	16900	19800
5	16000	16700	19800	16300	14600	12100	11100	9900	10300	13800	17100	20100
6	16400	17800	19700	16200	14300	12000	11100	9900	10400	13700	17000	20100
7	16400	18500	19500	16100	14500	11900	11000	9980	10500	13900	17200	20400
8	16700	17500	19200	16000	14300	11900	11000	9940	10600	14300	17000	20200
9	17200	17500	18900	15900	14200	12200	10600	9740	10900	14500	17200	19800
10	17500	18900	18600	15800	14200	12100	10600	9650	10800	14700	17200	19600
11	17300	17400	18500	15700	14100	12100	10700	9650	10700	15100	17500	19600
12	17500	17500	18300	15700	14100	12000	10600	9860	10900	15200	17500	19700
13	17900	17600	18200	15600	14100	12200	10600	10200	11100	15300	17700	20100
14	19100	17800	18000	15600	13800	12200	10500	10600	11000	15500	17700	19800
15	18700	17500	17900	15500	13800	12300	10500	10200	10800	15500	17700	19700
16	18200	17300	17800	15400	13500	12200	10400	10200	11300	15400	17900	19600
17	18000	17300	17700	15100	13500	12100	10300	10100	11700	15300	18100	19500
18	17900	17300	17600	15000	13600	11900	10300	9820	11600	15600	18300	19500
19	17800	17400	17600	15000	13200	12000	10300	9820	11400	15700	18100	19200
20	17900	18800	17500	15000	13100	11900	10200	9860	11600	15800	18500	19200
21	17500	17100	17400	15000	13000	12100	10100	9940	11700	16200	19000	19900
22	17700	16500	17300	14900	12900	11800	10100	9980	11900	16700	18300	21300
23	17900	16600	17200	14900	12800	11800	10000	9900	12300	16400	18600	20900
24	17300	17300	17100	14900	12700	11800	10100	9980	13100	16400	19200	19700
25	17200	17000	17000	14800	12700	11700	10300	10100	12800	16400	19000	19300
26	17600	16800	16900	14800	12600	11700	10700	10100	12600	16400	19300	19600
27	17500	17900	16800	14800	12600	11600	10600	10200	12700	16600	19600	19100
28	17200	20400	16800	14700	12500	11600	10400	10100	13100	16700	19800	18800
29	17100	20500	16700	14700	12500	11500	10300	10100	13800	16500	19900	18900
30	17000	19400	16600	14700	---	11400	9860	10100	13500	16700	19700	19500
31	17300	---	16600	14700	---	11400	---	10300	---	16800	19600	---
TOTAL	538500	530300	557100	478800	395700	370800	317160	308960	344000	475600	562300	592200
MEAN	17370	17680	17970	15450	13640	11960	10570	9966	11470	15340	18140	19740
MAX	19100	20500	19800	16600	14700	12400	11300	10600	13800	16800	19900	21300
MIN	16000	16500	16600	14700	12500	11400	9860	9490	10200	13600	16900	18800
CFSM	2.67	2.72	2.77	2.38	2.10	1.84	1.63	1.53	1.77	2.36	2.79	3.04
IN.	3.08	3.03	3.19	2.74	2.26	2.12	1.82	1.77	1.97	2.72	3.22	3.39
AC-FT	1068000	1052000	1105000	949700	784900	735500	629100	612800	682300	943400	1115000	1175000

CAL YR 1983 TOTAL 5730700 MEAN 15700 MAX 20500 MIN 10900 CFSM 2.42 IN 32.80 AC-FT 11370000
WTR YR 1984 TOTAL 5471420 MEAN 14950 MAX 21300 MIN 9490 CFSM 2.30 IN 31.31 AC-FT 10850000

15302000 NUYAKUK RIVER NEAR DILLINGHAM

LOCATION.--Lat 59°56'08", long 158°11'16", in NE¼NE¼ sec.10, T.3 S., R.52 W., Hydrologic Unit 19040002, on left bank 350 ft downstream from Tikchik Lake, 0.6 mi upstream from unnamed tributary, and 62 mi north of Dillingham. Prior to Oct. 8, 1983, at site 650 ft downstream.

DRAINAGE AREA.--1,490 mi^2, approximately.

PERIOD OF RECORD.--May 1953 to current year.

REVISED RECORDS.--WRD Alaska 1972: 1971.

GAGE.--Water-stage recorder. Altitude of gage is 325 ft, from topographic map. Prior to Oct. 8, 1983, at site 650 ft downstream at different datum and at datum 2.00 ft higher May 1953 to Oct. 1, 1957.

REMARKS.--Records good except those for period of no gage-height record, Jan. 7 to May 21, which are poor. Discharge affected by storage in Tikchik Lake, Nuyakuk Lake, Lake Chauekuktuli, and other smaller lakes covering over 170 mi^2. of the basin.

AVERAGE DISCHARGE.--31 years, 6,137 ft^3/s, 55.93 in/yr, 4,446,000 acre-ft/year.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 32,200 ft^3/s July 2, 1977, gage height, 10.49 ft, site and datum then in use; minimum daily, about 770 ft^3/s Apr. 16-30, 1960.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 17,600 ft^3/s July 8, gage height, 8.72 ft; minimum daily, about 1,800 ft^3/s Apr. 6 to May 2.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4000	3830	5790	5180	3200	2400	1900	1800	8360	16500	8660	4500
2	3800	3840	6210	5060	3200	2300	1900	1800	8630	16500	8360	4430
3	3800	3760	6350	4900	3100	2300	1900	1900	8900	16300	8220	4330
4	3700	3640	6470	4750	3100	2300	1900	1900	9260	16500	8110	4240
5	4000	3500	6540	4620	3100	2300	1900	2000	9590	16500	7940	4100
6	4400	3470	7170	4560	3100	2300	1800	2000	10100	16700	7770	4010
7	4300	3500	7520	4400	3000	2200	1800	2100	10600	17000	7600	3880
8	4260	3810	7690	4400	3000	2200	1800	2200	10900	17400	7390	3900
9	4260	3990	7570	4300	2900	2200	1800	2300	11300	17000	7180	3990
10	4500	3970	7330	4300	2900	2200	1800	2400	11700	16600	7000	4020
11	4600	3950	7200	4200	2900	2200	1800	2500	12000	16000	6940	3970
12	4600	4010	7070	4200	2800	2200	1800	2600	12300	15700	6810	3880
13	4600	4010	6970	4100	2800	2100	1800	2700	12600	15200	6660	3760
14	4520	3990	6840	4100	2800	2100	1800	2900	13000	14700	6490	3760
15	4520	3950	6740	4000	2700	2100	1800	3100	13300	14400	6330	3810
16	4630	3900	6690	3900	2700	2100	1800	3300	13500	14100	6130	3830
17	4730	3840	6610	3900	2700	2100	1800	3500	13700	13500	5920	3740
18	4670	3810	6490	3800	2600	2000	1800	3800	14100	12900	5970	3690
19	4600	3790	6370	3800	2600	2000	1800	4100	14300	12600	5850	3670
20	4500	3710	6420	3700	2600	2000	1800	4400	14500	12300	5620	3620
21	4520	3760	6420	3700	2600	2000	1800	4800	14500	12000	5600	3520
22	4390	3920	6400	3600	2500	2000	1800	5200	14500	11600	5600	3240
23	4290	3900	6370	3600	2500	2000	1800	5550	14500	11300	5500	3480
24	4310	3840	6330	3500	2500	2000	1800	5940	14600	10900	5400	4010
25	4260	3860	6160	3500	2500	2000	1800	6510	16000	10600	5400	4480
26	4110	3950	5940	3400	2400	1900	1800	6840	16800	10300	5500	4710
27	4170	3860	5850	3400	2400	1900	1800	7150	17000	10100	5400	4920
28	4040	3390	5710	3400	2400	1900	1800	7460	17300	9660	5100	5100
29	3930	3860	5550	3300	2400	1900	1800	7740	17300	9380	4840	5120
30	3900	5090	5420	3300	---	1900	1800	7970	16700	9050	4730	5250
31	3830	---	5310	3300	---	1900	---	8160	---	8810	4600	---
TOTAL	132740	115700	201500	124170	80000	65000	54500	126620	391840	422100	198620	122960
MEAN	4282	3857	6500	4005	2759	2097	1817	4085	13060	13620	6407	4099
MAX	4730	5090	7690	5180	3200	2400	1900	8160	17300	17400	8660	5250
MIN	3700	3390	5310	3300	2400	1900	1800	1800	8360	8810	4600	3240
CFSM	2.87	2.59	4.36	2.69	1.85	1.41	1.22	2.74	8.77	9.14	4.30	2.75
IN.	3.31	2.89	5.03	3.10	2.00	1.62	1.36	3.16	9.78	10.54	4.96	3.07
AC-FT	263300	229500	399700	246300	158700	128900	108100	251200	777200	837200	394000	243900

CAL YR 1983 TOTAL 2271160 MEAN 6222 MAX 21200 MIN 1700 CFSM 4.18 IN 56.70 AC-FT 4505000
WTR YR 1984 TOTAL 2035750 MEAN 5562 MAX 17400 MIN 1800 CFSM 3.73 IN 50.83 AC-FT 4038000

15302500 NUSHAGAK RIVER AT EKWOK
(National stream-quality accounting network station)

LOCATION.--Lat 59°20'57", long 157°28'23", in SE¼SE¼ sec.35, T.9 S., R.48 W., Hydrologic Unit 19040002, on right bank at Ekwok, 0.6 mi upstream from Klutuk Creek, and 40 mi northeast of Dillingham.

DRAINAGE AREA.--9,850 mi², approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1977 to current year.

GAGE.--Nonrecording gage. Altitude of gage is 90 ft, from topographic map. Prior to Apr. 17, 1979, at site 0.4 mi downstream at different datum.

REMARKS.--Water-discharge records good except those for the period of no gage-height record, Oct. 20 to May 4, which are poor.

AVERAGE DISCHARGE.--7 years, 22,990 ft³/s, 31.70 in/yr, 16,660,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge observed, 89,200 ft³/s June 8, 1982, gage height, 13.22 ft; maximum gage height, 14.46 ft, from floodmarks, site and datum then in use, in April 1979, backwater from ice; minimum daily discharge, about 6,000 ft³/s Mar. 1 to 12, 1979.

EXTREMES FOR CURRENT YEAR.--Maximum discharge observed, 47,100 cfs Oct. 12, gage height, 9.12 ft; minimum daily, about 11,000 ft³/s Apr. 11-25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18200	18000	21000	13000	13000	12000	12000	31000	24600	26500	17900	18300
2	18500	17000	21000	13000	13000	12000	12000	33000	23700	26700	18400	17600
3	18300	17000	20000	13000	13000	12000	12000	31000	23300	26700	18800	16900
4	17900	17000	20000	13000	13000	12000	12000	30000	22800	26700	18400	16400
5	16900	17000	19000	13000	13000	12000	12000	27900	22700	26300	17900	15800
6	16100	17000	19000	13000	13000	12000	12000	22600	22700	26000	17400	15200
7	15600	17000	18000	13000	13000	12000	12000	20100	23000	25500	17000	14900
8	15700	17000	17000	13000	13000	12000	12000	18200	23200	25100	16700	14600
9	16700	18000	17000	13000	13000	12000	12000	19300	23200	24500	16300	14600
10	21600	20000	17000	13000	13000	12000	12000	21600	23400	24000	15900	14500
11	36600	21000	17000	13000	13000	12000	11000	24100	23400	23800	15900	14300
12	46400	21000	16000	13000	13000	12000	11000	25100	23300	23700	16300	14100
13	45400	20000	16000	13000	13000	12000	11000	24100	23100	23700	16300	13900
14	41800	20000	16000	13000	13000	12000	11000	22200	23400	23500	15800	14000
15	37100	19000	16000	13000	13000	12000	11000	22900	24100	23200	15200	14100
16	33000	18000	16000	13000	13000	12000	11000	25400	24800	23200	14800	14000
17	30100	18000	15000	13000	13000	12000	11000	26900	25100	22500	14400	13800
18	28100	18000	15000	13000	13000	12000	11000	27300	25100	21800	14500	13600
19	26000	17000	15000	13000	13000	12000	11000	27700	25200	21500	14800	13300
20	24000	17000	15000	13000	13000	12000	11000	29200	25300	21200	15600	13400
21	23000	17000	15000	13000	13000	12000	11000	29900	24800	20900	16000	13300
22	22000	17000	15000	13000	13000	12000	11000	32800	24700	20800	16400	13200
23	21000	16000	14000	13000	13000	12000	11000	32700	24400	20300	17600	13100
24	20000	16000	14000	13000	13000	12000	11000	30800	24100	19800	19400	13300
25	20000	16000	14000	13000	13000	12000	11000	29400	24300	19200	20200	14100
26	19000	16000	14000	13000	13000	12000	12000	28300	25900	18700	21600	14900
27	19000	16000	14000	13000	13000	12000	15000	28000	26600	18400	23000	15500
28	18000	17000	14000	13000	13000	12000	20000	27600	26300	18300	22400	15500
29	18000	18000	14000	13000	13000	12000	24000	26500	26200	17900	21500	15300
30	18000	19000	14000	13000	---	12000	28000	25900	26100	17500	20400	15100
31	18000	---	14000	13000	---	12000	---	25000	---	17500	19400	---
TOTAL	740000	532000	502000	403000	377000	372000	384000	826500	728800	695400	546200	440600
MEAN	23870	17730	16190	13000	13000	12000	12800	26660	24290	22430	17620	14690
MAX	46400	21000	21000	13000	13000	12000	28000	33000	26600	26700	23000	18300
MIN	15600	16000	14000	13000	13000	12000	11000	18200	22700	17500	14400	13100
CFSM	2.42	1.80	1.64	1.32	1.32	1.22	1.30	2.71	2.47	2.28	1.79	1.49
IN.	2.79	2.01	1.90	1.52	1.42	1.40	1.45	3.12	2.75	2.63	2.06	1.66
AC-FT	1468000	1055000	995700	799400	747800	737900	761700	1639000	1446000	1379000	1083000	873900

CAL YR 1983 TOTAL 6611900 MEAN 18110 MAX 46800 MIN 6600 CFSM 1.84 IN 24.97 AC-FT 13110000
WTR YR 1984 TOTAL 6547500 MEAN 17890 MAX 46400 MIN 11000 CFSM 1.82 IN 24.73 AC-FT 12990000

SOUTHWEST ALASKA

15302500 NUSHAGAK RIVER AT EKWOK--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1979 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK) (00009)	SPE- CIFIC CON- DUCT- ANCE (UMHOS) (00095)	PH (STAND- ARD UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)
MAY								
23...	2020	200	41	--	7.0	754	12.2	102
23...	2021	400	46	--	7.0	754	12.2	102
23...	2022	575	46	--	7.0	754	12.1	101
23...	2023	750	52	--	7.0	754	12.1	101
23...	2024	850	51	--	7.0	754	12.2	102
JUN								
19...	1320	300	49	7.1	12.5	765	10.8	100
19...	1322	450	49	7.1	12.0	765	10.8	100
19...	1324	600	49	7.2	12.0	765	10.9	101
19...	1326	750	49	7.2	12.0	765	10.9	101
19...	1328	900	49	7.2	12.5	765	11.3	105
AUG								
30...	1235	300	54	7.2	9.0	764	11.1	95
30...	1236	450	53	7.1	9.0	764	11.1	95
30...	1237	600	54	7.1	9.0	764	11.3	97
30...	1238	750	53	7.1	9.0	764	11.2	97
30...	1239	900	56	7.2	9.0	764	11.3	98

DATE	TIME	STREAM WIDTH (FT) (00004)	STREAM- FLOW, INSTAN- TANEOUS (CFS) (00061)	SPE- CIFIC CON- DUCT- ANCE (UMHOS) (00095)	TUR- BID- ITY (NTU) (00076)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	HARD- NESS (MG/L AS CACO3) (00900)	HARD- NESS, NONCAR- BONATE (MG/L CACO3) (00902)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)
MAY										
23...	2030	965	32700	44	5.8	K14	<1	19	2	5.2
JUN										
19...	1330	965	25200	--	.90	K2	<1	25	3	7.2
AUG										
30...	1245	--	20400	59	2.7	K6	<1	27	2	7.8

DATE	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	ALKA- LINITY FIELD (MG/L AS CACO3) (00410)	ALKA- LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)
MAY										
23...	1.4	1.5	.50	17	16	4.5	1.0	<.10	7.0	36
JUN										
19...	1.6	1.7	.40	--	22	4.9	.80	.20	6.0	42
AUG										
30...	1.7	1.9	.40	--	25	5.9	1.1	<.10	7.2	35

DATE	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS- PHORUS, TOTAL (MG/L AS P) (00665)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P) (00671)	SEDI- MENT, SUS- PENDED (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
MAY										
23...	32	<.10	.070	.40	.060	.020	.030	37	3270	63
JUN										
19...	36	<.10	.030	<.20	.010	.010	.010	9	612	75
AUG										
30...	41	<.10	.070	.20	.030	.020	.010	12	661	79

K NON IDEAL COLONY COUNT

15302500 NUSHAGAK RIVER AT EKWOK--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	ALUMINUM, DISSOLVED (UG/L AS AL) (01106)	ARSENIC DISSOLVED (UG/L AS AS) (01000)	BARIUM, DISSOLVED (UG/L AS BA) (01005)	BERYLLIUM, DISSOLVED (UG/L AS BE) (01010)	CADMIUM DISSOLVED (UG/L AS CD) (01025)	CHROMIUM, DISSOLVED (UG/L AS CR) (01030)	COBALT, DISSOLVED (UG/L AS CO) (01035)	COPPER, DISSOLVED (UG/L AS CU) (01040)	IRON, DISSOLVED (UG/L AS FE) (01046)	LEAD, DISSOLVED (UG/L AS PB) (01049)
MAY											
23...	2030	30	<1	11	<1	<1	<1	<3	11	280	<1
AUG											
30...	1245	30	<1	9	2	<1	<1	<3	2	190	14

DATE	LITHIUM DISSOLVED (UG/L AS LI) (01130)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	MERCURY DISSOLVED (UG/L AS HG) (71890)	MOLYBDENUM, DISSOLVED (UG/L AS MO) (01060)	NICKEL, DISSOLVED (UG/L AS NI) (01065)	SELENIUM, DISSOLVED (UG/L AS SE) (01145)	SILVER, DISSOLVED (UG/L AS AG) (01075)	STRONTIUM, DISSOLVED (UG/L AS SR) (01080)	VANADIUM, DISSOLVED (UG/L AS V) (01085)	ZINC, DISSOLVED (UG/L AS ZN) (01090)
MAY										
23...	5	6	<.1	<10	<1	<1	<1	31	<6	38
AUG										
30...	<4	6	<.1	<10	2	<1	<1	42	<6	14

15304000 KUSKOKWIM RIVER AT CROOKED CREEK

(National stream-quality accounting and radiochemical networks station)

LOCATION.--Lat 61°52'16", long 158°06'03", in NE¼NE¼ sec.32, T.21 N., R.48 W., Hydrologic Unit 19040001, on right bank at village of Crooked Creek, 0.5 mi upstream from Crooked Creek.

DRAINAGE AREA.--31,100 mi^2, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1951 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 200 ft, from topographic map. Prior to Aug. 6, 1977, nonrecording gage at site 600 ft downstream at same datum.

REMARKS.--Records good except those for periods of no gage-height record, Oct. 1 to May 21 and June 3 to July 9, which are poor.

AVERAGE DISCHARGE.--33 years, 41,080 ft^3/s, 17.94 in/yr, 29,760,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 392,000 ft^3/s June 5, 1964, gage height, 25.74 ft; maximum gage height, 26.36 ft, about May 16, 1968, from floodmarks, backwater from ice; minimum daily discharge, about 6,100 ft^3/s Mar. 1-31, 1966.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 129,000 ft^3/s about May 14, gage height, 11.77 ft, from floodmarks; minimum daily, about 12,500 ft^3/s Mar. 1-25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33000	22000	17000	15000	13000	12500	13000	23000	74300	66000	54300	77600
2	32000	22000	17000	15000	13000	12500	13000	26000	73000	64000	56800	70500
3	31500	21000	17000	15000	13000	12500	13500	30000	72000	62000	59600	64700
4	31000	21000	17000	15000	13000	12500	13500	35000	70000	60000	61400	60100
5	30000	21000	17000	15000	13000	12500	13500	45000	68000	58000	64100	56100
6	30000	21000	17000	14000	13000	12500	13500	56000	67000	56000	64300	52700
7	29500	20000	17000	14000	13000	12500	13500	66000	66000	54000	63300	49700
8	29000	20000	17000	14000	13000	12500	13500	90000	65000	52000	63200	47400
9	28500	20000	17000	14000	13000	12500	14000	100000	64000	51000	62700	45800
10	28000	20000	17000	14000	13000	12500	14000	110000	63000	50900	61800	44100
11	28000	20000	16000	14000	13000	12500	14000	120000	62000	50800	60500	45000
12	27500	20000	16000	14000	13000	12500	14000	125000	61000	50800	59200	44000
13	27000	20000	16000	14000	13000	12500	14000	128000	60000	50500	57200	43000
14	26500	19000	16000	14000	13000	12500	14000	128000	60000	50300	55500	42500
15	26000	19000	16000	14000	13000	12500	14000	127000	59000	49700	53900	42000
16	26000	19000	16000	14000	13000	12500	14000	125000	59000	49600	51600	42000
17	26000	19000	16000	14000	13000	12500	14000	120000	59000	49100	49700	42000
18	25000	19000	16000	14000	13000	12500	14500	120000	58000	47600	48500	42500
19	25000	19000	16000	14000	13000	12500	14500	120000	58000	46500	50300	42500
20	25000	19000	16000	14000	13000	12500	14500	115000	57000	46500	56500	42500
21	25000	18000	15000	14000	13000	12500	14500	115000	57000	46600	64300	41100
22	24000	18000	15000	14000	13000	12500	14500	115000	56000	46500	65300	38700
23	24000	18000	15000	14000	13000	12500	15000	114000	56000	46600	66400	38300
24	24000	18000	15000	14000	13000	12500	15000	114000	58000	46800	71900	37800
25	23000	18000	15000	14000	13000	12500	15500	112000	60000	47300	76900	37700
26	23000	18000	15000	14000	13000	13000	16000	113000	62000	47400	84000	37700
27	23000	18000	15000	14000	13000	13000	17000	108000	64000	48500	103000	38100
28	23000	18000	15000	14000	13000	13000	18000	99300	65000	48600	106000	37400
29	22000	18000	15000	14000	13000	13000	19000	90700	66000	48100	98400	35600
30	22000	18000	15000	14000	---	13000	21000	84000	66000	48800	93600	33600
31	22000	---	15000	14000	---	13000	---	77900	---	50800	86300	---
TOTAL	819500	581000	495000	439000	377000	390500	442000	2951900	1885300	1591300	2070500	1372700
MEAN	26440	19370	15970	14160	13000	12600	14730	95220	62840	51330	66790	45760
MAX	33000	22000	17000	15000	13000	13000	21000	128000	74300	66000	106000	77600
MIN	22000	18000	15000	14000	13000	12500	13000	23000	56000	46500	48500	33600
CFSM	.85	.62	.51	.46	.42	.41	.47	3.06	2.02	1.65	2.15	1.47
IN.	.98	.69	.59	.53	.45	.47	.53	3.53	2.26	1.90	2.48	1.64
AC-FT	1625000	1152000	981800	870800	747800	774600	876700	5855000	3739000	3156000	4107000	2723000

CAL YR 1983 TOTAL 11543900 MEAN 31630 MAX 76400 MIN 11000 CFSM 1.02 IN 13.81 AC-FT 22900000
WTR YR 1984 TOTAL 13415700 MEAN 36650 MAX 128000 MIN 12500 CFSM 1.18 IN 16.05 AC-FT 26610000

15304000 KUSKOKWIM RIVER AT CROOKED CREEK--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water year 1951, 1955-72, 1974 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	SAMPLE LOC-ATION, CROSS SECTION (FT FM L BANK) (00009)	SPE-CIFIC CON-DUCT-ANCE (UMHOS) (00095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)
MAR								
21...	1151	475	212	7.2	.0	758	5.8	40
21...	1152	575	216	7.2	.0	758	5.9	41
21...	1153	650	224	7.2	.0	758	6.0	41
21...	1154	700	228	7.2	.0	758	6.0	41
21...	1155	825	242	7.2	.0	758	6.1	42
MAY								
22...	1630	400	72	7.1	7.0	753	10.2	85
22...	1631	650	80	7.1	7.0	753	10.4	86
22...	1632	775	84	7.2	7.0	753	10.4	86
22...	1633	900	88	7.2	6.5	753	10.4	86
22...	1634	1100	85	7.2	6.5	753	10.0	82
JUL								
10...	1900	475	180	7.6	13.5	751	10.2	99
10...	1901	650	191	7.7	13.5	751	10.1	98
10...	1902	775	197	7.8	13.5	751	10.2	100
10...	1903	875	205	7.8	13.5	751	10.3	100
10...	1904	1050	205	7.8	13.5	751	10.2	100
SEP								
21...	1305	550	179	8.5	6.0	764	12.0	97
21...	1306	650	179	7.8	6.0	764	11.3	91
21...	1307	750	189	7.7	6.0	764	10.9	88
21...	1308	850	204	7.8	6.0	764	11.1	89
21...	1309	1000	206	7.8	6.0	764	10.9	88

DATE	TIME	STREAM WIDTH (FT) (00004)	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	SPE-CIFIC CON-DUCT-ANCE (UMHOS) (00095)	TUR-BID-ITY (NTU) (00076)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREP-TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	HARD-NESS (MG/L AS CACO3) (00900)	HARD-NESS, NONCAR-BONATE (MG/L CACO3) (00902)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)
MAR										
21...	1200	900	11100	--	4.3	K1	<1	120	10	35
MAY										
22...	1645	1290	115000	--	27	--	--	52	8	16
JUL										
10...	2100	1170	53600	--	65	K12	K5	97	17	28
SEP										
21...	1330	1100	38500	200	5.5	K1	<1	100	22	30

DATE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY, CARBON-ATE IT-FLD (MG/L - CACO3) (99430)	BICAR-BONATE IT-FLD (MG/L AS HCO3) (99440)	CAR-BONATE IT-FLD (MG/L AS CO3) (99445)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)
MAR									
21...	7.9	2.4	1.0	111	135	.000	17	.70	.20
MAY									
22...	2.8	1.1	.40	43	53	.000	14	.80	<.10
JUL									
10...	6.6	1.9	1.1	80	98	.000	21	.50	.20
SEP									
21...	6.9	2.2	.90	82	100	--	17	.80	.20

K NON-IDEAL COLONY COUNT

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15304000 KUSKOKWIM RIVER AT CROOKED CREEK--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P) (00671)
MAR 21...	12	130	140	.24	.050	<.20	.010	<.010	<.010
MAY 22...	5.3	80	67	--	--	.80	.200	--	--
JUL 10...	7.1	113	110	<.10	<.010	.50	.100	<.010	.020
SEP 21...	8.5	120	120	<.10	.010	.20	.030	.010	.020

DATE	TIME	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)
MAR 21...	1200	<10	<1	56	<.5	<1	1	<3	<1	110	1
MAY 22...	1645	20	<1	29	2	<1	<1	<3	3	460	2
JUL 10...	2100	20	<1	41	<1	<1	<1	<3	2	81	2
SEP 21...	1330	20	<1	42	<1	<1	1	<3	2	200	<1

DATE	LITHIUM DIS-SOLVED (UG/L AS LI) (01130)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)
MAR 21...	5	10	<.1	<10	<1	<1	<1	190	<6	20
MAY 22...	9	8	<.1	<10	<1	<2	<1	83	<6	8
JUL 10...	6	2	<.1	<10	<1	<1	<1	160	<6	6
SEP 21...	6	5	.3	<10	<1	<1	<1	160	<6	9

DATE	TIME	GROSS ALPHA, DIS-SOLVED (UG/L AS U-NAT) (80030)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT) (80040)	GROSS ALPHA, SUSP. TOTAL (PCI/L AS U-NAT) (01516)	GROSS BETA, DIS-SOLVED (PCI/L AS CS-137) (03515)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137) (03516)	GROSS BETA, DIS-SOLVED (PCI/L AS SR/YT-90) (80050)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90) (80060)	RADIUM 226, DIS-SOLVED, RADON METHOD (PCI/L) (09511)	URANIUM DIS-SOLVED, EXTRAC-TION (UG/L) (80020)
MAR 21...	1200	<2.5	<.4	--	<1.8	<.4	<1.5	<.4	.09	.46
MAY 22...	1645	<2.0	15	10	1.6	9.7	1.4	8.4	.19	.13

15304000 KUSKOKWIM RIVER AT CROOKED CREEK--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
MAR					
21...	1200	11100	4	120	--
MAY					
22...	1630	--	371	--	64
22...	1631	--	519	--	53
22...	1632	--	421	--	69
22...	1633	--	437	--	68
22...	1634	--	323	--	82
22...	1645	115000	414	129000	66
JUL					
10...	1900	--	125	--	81
10...	1901	--	161	--	68
10...	1902	--	147	--	81
10...	1903	--	135	--	86
10...	1904	--	108	--	95
10...	2100	53600	135	19500	81
SEP					
21...	1305	--	24	--	80
21...	1306	--	30	--	71
21...	1307	--	34	--	34
21...	1308	--	45	--	45
21...	1309	--	73	--	73
21...	1330	38500	43	4470	54

15304200 KISARALIK RIVER NEAR AKIAK

LOCATION.--Lat 60°21'10", long 159°55'00", in SE¼NW¼ sec.17, T.3 N., R.61 W., Hydrologic Unit 19040001, on left bank, 1.2 mi upstream from Upper Falls, 4.2 mi upstream from Quicksilver Creek, and 59.5 mi southeast of Akiak.

DRAINAGE AREA.--265 mi².

PERIOD OF RECORD.--October 1979 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 1,050 ft, from topographic map.

REMARKS.--Records good except those for Oct. 21 to July 17, which are poor.

AVERAGE DISCHARGE.--5 years, 885 ft³/s, 45.35 in/yr, 641,200 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,520 ft³/s June 28, 1982, gage height, 9.44 ft; minimum daily, about 150 ft³/s Apr. 16-22, 1983.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, about 2,100 ft³/s June 26-27, based on runoff comparison with nearby station; minimum daily, about 190 ft³/s Apr. 18-30.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	530	340	250	230	220	210	200	200	950	1950	710	505
2	496	330	250	230	220	210	200	200	980	1900	682	496
3	463	320	250	230	220	210	200	200	1000	1900	682	472
4	463	320	240	230	220	210	200	210	1100	1850	673	455
5	634	310	240	230	220	210	200	210	1100	1800	654	447
6	794	310	240	230	220	210	200	210	1150	1800	627	431
7	692	310	240	230	220	210	200	220	1200	1850	600	415
8	757	310	240	230	220	210	200	230	1250	1950	565	415
9	1310	320	240	230	220	210	200	230	1300	2000	547	415
10	1380	330	240	230	220	210	200	240	1350	1950	556	479
11	1240	340	240	230	220	210	200	250	1400	1850	600	463
12	1160	340	240	230	220	210	200	260	1400	1800	556	431
13	1050	340	240	230	220	210	200	280	1450	1700	513	415
14	980	330	240	230	220	210	200	310	1500	1600	488	463
15	948	320	240	230	220	210	200	330	1500	1450	463	472
16	887	320	240	230	220	210	200	360	1600	1350	447	463
17	837	310	240	230	220	210	200	410	1650	1200	455	455
18	759	310	240	230	220	210	190	440	1700	1090	488	463
19	646	310	240	230	220	210	190	480	1700	1050	455	463
20	548	290	240	230	220	210	190	510	1750	969	415	463
21	510	290	240	230	220	210	190	550	1750	918	415	439
22	480	280	240	230	220	210	190	580	1800	876	415	463
23	460	280	240	230	220	210	190	620	1800	866	415	774
24	440	270	240	230	220	210	190	640	1900	826	455	885
25	420	270	240	230	220	210	190	670	1950	806	755	947
26	400	270	240	230	220	200	190	700	2100	816	748	948
27	390	260	240	230	220	200	190	740	2100	865	664	897
28	380	260	240	230	220	200	190	790	2050	817	610	876
29	360	250	240	230	220	200	190	840	2000	768	565	846
30	350	250	240	230	---	200	190	870	1950	720	522	806
31	340	---	240	230	---	200	---	900	---	701	505	---
TOTAL	21104	9090	7470	7130	6380	6450	5870	13680	46430	41988	17245	16962
MEAN	681	303	241	230	220	208	196	441	1548	1354	556	565
MAX	1380	340	250	230	220	210	200	900	2100	2000	755	948
MIN	340	250	240	230	220	200	190	200	950	701	415	415
CFSM	2.57	1.14	.91	.87	.83	.79	.74	1.66	5.84	5.11	2.10	2.13
IN.	2.96	1.28	1.05	1.00	.90	.91	.82	1.92	6.52	5.89	2.42	2.38
AC-FT	41860	18030	14820	14140	12650	12790	11640	27130	92090	83280	34210	33640

CAL YR 1983 TOTAL 252951 MEAN 693 MAX 3160 MIN 150 CFSM 2.62 IN 35.51 AC-FT 501700
WTR YR 1984 TOTAL 199799 MEAN 546 MAX 2100 MIN 190 CFSM 2.06 IN 28.05 AC-FT 396300

NOTES.--No gage-height record Feb. 5 to July 17.

15344000 KING CREEK NEAR DOME CREEK

LOCATION.--Lat 64°23'38", long 141°24'43", in NE¼SW¼ sec.16, T.6 S., R.32 E., Hydrologic Unit 19030002, on left bank at mi 120 Taylor Highway, 1,100 ft upstream from culvert at mi 119.8, 0.4 mi upstream from mouth, 4.9 mi east of Dome Creek, and 29 mi south of Eagle.

DRAINAGE AREA.--5.87 mi².

PERIOD OF RECORD.--Annual maximums, water years 1975-82. May 1983 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 1,650 ft, from topographic map. Aug 10, 1975 to July 18, 1979 crest-stage gage 100 ft upstream of culvert at different datum. July 21, 1979 to May 11, 1983 crest-stage gage 100 ft downstream.

REMARKS.--Records poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 163 ft³/s June 1982, gage height, 13.44 ft, site then in use, from rating curve extended above 20 ft³/s on the basis of slope-area measurement of peak flow; no flow during winter periods.

EXTREMES FOR CURRENT PERIOD.--May to September 1983: Maximum discharge, 24 ft³/s Aug. 13, gage height, 14.85 ft; minimum daily, 0.50 ft³/s July 9.

Water Year 1984: Maximum discharge, 48 ft³/s May 26, gage height, 15.37 ft; no flow Oct. 10 to Apr. 15.

DISCHARGE, IN CUBIC FEET PER SECOND, MAY TO SEPTEMBER 1983
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1								---	1.6	.85	6.2	2.0
2								---	1.5	1.2	3.5	2.2
3								---	1.4	1.5	2.5	2.1
4								---	1.5	1.4	2.0	1.9
5								---	1.9	1.5	2.4	1.8
6								---	1.7	1.2	2.1	1.7
7								---	1.5	.80	1.8	1.6
8								---	1.2	.56	1.6	1.7
9								---	1.0	.49	1.3	1.6
10								---	.96	.59	1.3	1.5
11								---	.77	3.9	1.2	1.4
12								5.5	.70	3.5	3.4	1.4
13								5.3	.58	3.4	15	1.4
14								9.6	.72	2.8	7.0	1.2
15								6.8	1.0	2.1	5.6	1.3
16								4.0	2.6	1.6	4.1	1.3
17								2.9	6.2	1.3	3.2	1.4
18								2.5	3.5	1.4	2.8	1.3
19								2.5	2.2	2.4	2.4	1.3
20								2.1	2.8	6.0	2.0	1.2
21								1.8	12	8.4	2.0	1.2
22								1.5	14	6.4	1.9	2.2
23								1.3	6.8	4.7	2.2	5.4
24								1.4	4.7	2.9	3.6	4.0
25								1.4	3.0	1.9	3.6	3.0
26								1.3	2.2	1.5	3.0	2.5
27								1.5	2.0	1.1	2.8	2.5
28								1.4	1.7	.84	2.5	2.0
29								1.5	1.4	.66	2.3	2.0
30								1.6	1.1	1.9	2.1	2.0
31								1.7	---	6.3	2.0	---
TOTAL								---	84.23	75.09	99.4	58.1
MEAN								---	2.81	2.42	3.21	1.94
MAX								---	14	8.4	15	5.4
MIN								---	.58	.49	1.2	1.2
CFSM								---	.48	.41	.55	.33
IN.								---	.53	.48	.63	.37
AC-FT								---	167	149	197	115

15344000 KING CREEK NEAR DOME CREEK--Continued

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.5	.00	.00	.00	.00	.00	.00	.80	2.8	.60	2.8	3.3
2	1.5	.00	.00	.00	.00	.00	.00	1.0	3.8	.50	2.4	3.2
3	1.5	.00	.00	.00	.00	.00	.00	1.4	2.8	.40	2.0	3.1
4	1.0	.00	.00	.00	.00	.00	.00	2.0	2.0	.35	1.8	3.1
5	1.0	.00	.00	.00	.00	.00	.00	3.0	1.7	.45	1.7	3.1
6	1.0	.00	.00	.00	.00	.00	.00	5.0	1.7	.84	1.7	2.8
7	.50	.00	.00	.00	.00	.00	.00	8.0	1.6	1.1	1.9	2.7
8	.50	.00	.00	.00	.00	.00	.00	15	1.4	1.1	1.7	2.5
9	.50	.00	.00	.00	.00	.00	.00	23	1.3	.78	1.7	2.3
10	.00	.00	.00	.00	.00	.00	.00	19	1.4	4.3	2.0	2.2
11	.00	.00	.00	.00	.00	.00	.00	12	1.4	20	1.9	2.0
12	.00	.00	.00	.00	.00	.00	.00	7.2	2.4	8.4	1.6	2.0
13	.00	.00	.00	.00	.00	.00	.00	4.0	5.5	5.5	1.4	2.0
14	.00	.00	.00	.00	.00	.00	.00	4.4	3.4	3.5	1.4	1.9
15	.00	.00	.00	.00	.00	.00	.00	6.0	2.8	3.5	1.3	1.9
16	.00	.00	.00	.00	.00	.00	.10	8.6	3.3	4.4	1.3	1.8
17	.00	.00	.00	.00	.00	.00	.10	8.3	3.2	16	1.3	2.0
18	.00	.00	.00	.00	.00	.00	.10	6.6	4.1	8.1	1.1	2.4
19	.00	.00	.00	.00	.00	.00	.10	5.4	6.4	4.3	1.1	2.3
20	.00	.00	.00	.00	.00	.00	.10	5.7	6.2	2.9	1.7	2.1
21	.00	.00	.00	.00	.00	.00	.20	4.3	6.0	2.5	2.3	2.0
22	.00	.00	.00	.00	.00	.00	.20	3.9	5.6	4.8	2.0	1.9
23	.00	.00	.00	.00	.00	.00	.20	3.5	3.2	4.8	1.8	2.0
24	.00	.00	.00	.00	.00	.00	.20	3.5	2.3	3.1	2.0	2.0
25	.00	.00	.00	.00	.00	.00	.30	4.9	1.7	3.2	2.6	2.0
26	.00	.00	.00	.00	.00	.00	.30	34	1.4	3.3	9.3	2.0
27	.00	.00	.00	.00	.00	.00	.30	20	1.4	7.8	8.0	1.9
28	.00	.00	.00	.00	.00	.00	.40	8.5	1.3	23	5.0	1.9
29	.00	.00	.00	.00	.00	.00	.50	5.1	1.0	10	3.8	1.9
30	.00	.00	.00	.00	---	.00	.60	3.7	.78	5.7	3.4	1.9
31	.00	---	.00	.00	---	.00	---	2.8	---	3.8	3.3	---
TOTAL	9.00	.00	.00	.00	.00	.00	3.70	240.60	83.88	159.02	77.3	68.2
MEAN	.29	.000	.000	.000	.000	.000	.12	7.76	2.80	5.13	2.49	2.27
MAX	1.5	.00	.00	.00	.00	.00	.60	34	6.4	23	9.3	3.3
MIN	.00	.00	.00	.00	.00	.00	.00	.80	.78	.35	1.1	1.8
CFSM	.05	.000	.000	.000	.000	.000	.02	1.32	.48	.87	.42	.39
IN.	.06	.00	.00	.00	.00	.00	.02	1.52	.53	1.01	.49	.43
AC-FT	18	.00	.00	.00	.00	.00	7.3	477	166	315	153	135

WTR YR 1984 TOTAL 641.70 MEAN 1.75 MAX 34 MIN .00 CFSM .30 IN 4.07 AC-FT 1270

15356000 YUKON RIVER AT EAGLE

LOCATION.--Lat 64°47'22", long 141°11'52", in NW¼ sec.31, T.1 S., R.33 E., Hydrologic Unit 19030002, on left bank at Eagle, 0.1 mi upstream from Mission Creek, 1.1 mi downstream from Castalia Creek, and 11 mi downstream from the international boundry.

DRAINAGE AREA.--113,500 mi^2, approximately.

PERIOD OF RECORD.--January 1911 to December 1913, June 1950 to current year. Monthly discharge only for some periods published in WSP 1372.

GAGE.--Water-stage recorder. Altitude of gage is 850 ft, from topographic map. See WSP 1936 for history of changes prior to Oct. 1, 1963. Nonrecordin gage prior to June 26, 1982 at same site and datum.

REMARKS--Records good except those for period of no gage-height record, Oct. 19 to May 25, which are estimated and poor.

AVERAGE DISCHARGE.--36 years, 82,510 ft^3/s, 9.87 in/yr, 59,780,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 545,000 ft^3/s June 12, 1964, gage height, 33.85 ft; maximum gage height, 35.94 ft in May 1962, from floodmarks, backwater from ice; minimum discharge measured, 8,100 ft^3/s Mar. 7, 1956.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 255,000 ft^3/s July 5, gage height, 21.20 ft; minimum daily, about 14,000 ft^3/s Feb. 2 to Mar. 22.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	90300	45000	27000	19000	15000	14000	16000	22000	155000	202000	147000	113000
2	89600	44000	27000	19000	14000	14000	17000	24000	153000	220000	139000	118000
3	89800	43000	27000	19000	14000	14000	17000	27000	155000	237000	133000	122000
4	90100	42000	26000	19000	14000	14000	17000	29000	156000	248000	128000	123000
5	90200	41000	26000	19000	14000	14000	17000	33000	158000	253000	125000	126000
6	89400	40000	26000	18000	14000	14000	17000	38000	159000	243000	124000	133000
7	88300	40000	25000	18000	14000	14000	18000	45000	163000	230000	123000	137000
8	86100	39000	25000	18000	14000	14000	18000	56000	165000	213000	123000	140000
9	82700	38000	25000	18000	14000	14000	18000	74000	169000	204000	125000	139000
10	79700	38000	24000	18000	14000	14000	18000	96000	178000	199000	127000	134000
11	77200	37000	24000	18000	14000	14000	18000	160000	190000	200000	126000	126000
12	76400	36000	24000	17000	14000	14000	19000	170000	198000	217000	123000	118000
13	76500	35000	24000	17000	14000	14000	19000	170000	209000	212000	121000	112000
14	75500	35000	23000	17000	14000	14000	19000	150000	230000	194000	118000	107000
15	74500	35000	23000	17000	14000	14000	19000	140000	240000	180000	117000	103000
16	73400	34000	23000	17000	14000	14000	19000	130000	243000	173000	117000	99900
17	71800	34000	23000	17000	14000	14000	20000	130000	245000	172000	117000	97400
18	70100	33000	23000	16000	14000	14000	20000	130000	238000	175000	117000	95900
19	67000	33000	22000	16000	14000	14000	20000	140000	228000	173000	116000	94900
20	64000	32000	22000	16000	14000	14000	20000	140000	218000	170000	115000	93100
21	62000	32000	22000	16000	14000	14000	20000	150000	204000	166000	115000	91400
22	60000	31000	22000	16000	14000	14000	21000	150000	195000	163000	113000	89200
23	58000	31000	22000	16000	14000	15000	21000	160000	194000	161000	112000	87000
24	56000	30000	21000	16000	14000	15000	21000	170000	191000	156000	109000	84800
25	54000	30000	21000	15000	14000	15000	21000	180000	187000	151000	107000	82800
26	52000	30000	21000	15000	14000	15000	21000	192000	182000	149000	108000	81000
27	50000	29000	21000	15000	14000	15000	22000	198000	179000	150000	123000	79600
28	49000	29000	20000	15000	14000	16000	22000	185000	178000	165000	136000	78200
29	48000	28000	20000	15000	14000	16000	22000	175000	179000	177000	130000	76700
30	47000	28000	20000	15000	---	16000	22000	165000	181000	164000	120000	75300
31	46000	---	20000	15000	---	16000	---	158000	---	154000	114000	---
TOTAL	2184600	1052000	719000	522000	407000	447000	579000	3787000	5720000	5871000	3768000	3158200
MEAN	70470	35070	23190	16840	14030	14420	19300	122200	190700	189400	121500	105300
MAX	90300	45000	27000	19000	15000	16000	22000	198000	245000	253000	147000	140000
MIN	46000	28000	20000	15000	14000	14000	16000	22000	153000	149000	107000	75300
CFSM	.62	.31	.20	.15	.12	.13	.17	1.08	1.68	1.67	1.07	.93
IN.	.72	.34	.24	.17	.13	.15	.19	1.24	1.87	1.92	1.23	1.04
AC-FT	4333000	2087000	1426000	1035000	807300	886600	1148000	7512000	11350000	11650000	7474000	6264000

CAL YR 1983 TOTAL 32558500 MEAN 89200 MAX 343000 MIN 18000 CFSM .79 IN 10.67 AC-FT 64580000
WTR YR 1984 TOTAL 28214800 MEAN 77090 MAX 253000 MIN 14000 CFSM .68 IN 9.25 AC-FT 55960000

15388950 PORCUPINE RIVER AT OLD CROW

LOCATION.--Lat 67°33'50", long 139°53'00", Yukon Territory, Canada, on right bank 1.25 mi downstream from Old Crow and 3.0 mi downstream from the Old Crow River.

DRAINAGE AREA.--21,400 mi², approximately.

PERIOD OF RECORD.--June 1961 to current year (no winter records in water years 1962-68).

GAGE.--Water-stage recorder. Altitude of gage is 1,000 ft, from topographic map. Prior to July 1972, non-recording gage 1.25 mi upstream at different datum.

REMARKS.--Differences between figures published herein and corresponding figures in reports of the Water Survey of Canada are due to variations in automated program techniques. After December 1978 figures published in reports of the Water Survey of Canada are in the metric system and have been converted to the English system for this report.

COOPERATION.--Discharge records furnished by the Water Survey of Canada.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 237,000 ft³/s June 4, 1964; minimum not determined.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 144,000 ft³/s July 31, gage height, 32.28 ft; minimum daily, 498 ft³/s Mar. 5-7.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4940	2320	1060	674	558	501	508	618	54000	34600	132000	20800
2	4770	2270	1050	667	554	501	505	621	49100	29000	87200	18800
3	4660	2240	1040	653	554	501	505	621	42700	24200	56100	17200
4	4560	2170	1030	650	554	501	505	625	37400	21600	43800	15700
5	4380	2080	1010	646	551	498	505	629	33200	19400	43400	14700
6	4240	2040	992	639	554	498	501	632	28400	17000	41000	14100
7	4100	1990	978	636	558	498	505	632	24400	15200	35200	13900
8	3950	1910	968	629	554	501	512	636	23500	14300	30200	14100
9	3850	1840	957	621	551	501	519	650	26700	14000	26800	13900
10	3780	1770	946	618	551	505	530	667	27600	15300	24200	13100
11	3710	1670	936	618	551	501	537	689	28200	16100	21500	12200
12	3640	1550	925	614	547	501	540	2820	40300	15700	20100	11400
13	3570	1490	907	618	547	505	547	98900	68400	14500	19700	10800
14	3530	1430	890	621	547	505	558	86500	41300	15000	19900	10300
15	3460	1420	869	625	551	508	565	79400	39200	16800	21200	10100
16	3390	1380	847	629	551	508	572	72400	45900	16300	21100	9820
17	3270	1350	823	636	551	508	572	65300	54400	15600	21200	9360
18	3150	1320	812	636	551	512	569	68900	63600	17200	24400	9150
19	3080	1300	798	636	551	512	572	100000	58600	19400	27100	8900
20	2970	1270	784	636	551	516	572	92200	44800	22400	25000	8790
21	2850	1250	766	636	551	516	572	83300	34500	34300	21800	8900
22	2740	1230	756	629	547	516	576	76300	27700	56100	19800	8900
23	2680	1200	749	618	547	519	583	71000	22600	80900	18800	8830
24	2640	1180	734	611	544	519	593	63900	19200	81900	18600	8550
25	2560	1150	720	607	537	519	600	61800	17100	64300	19100	8580
26	2540	1130	706	600	533	516	607	57600	16300	45200	19900	8550
27	2510	1110	699	593	526	516	611	62500	16000	32600	20300	8190
28	2480	1100	692	586	512	519	614	70600	19200	26900	21500	7520
29	2450	1080	689	576	505	523	618	74200	20800	32300	23800	7030
30	2410	1070	685	572	---	516	618	68500	31900	91800	24700	6570
31	2380	---	681	561	---	505	---	59300	---	139000	23000	---
TOTAL	105240	46310	26499	19291	15839	15765	16691	1422440	1037000	1058900	972400	338740
MEAN	3395	1544	855	622	546	509	556	45890	34570	34160	31370	11290
MAX	4940	2320	1060	674	558	523	618	100000	63600	139000	132000	20800
MIN	2380	1070	681	561	505	498	501	618	16000	14000	18600	6570
CFSM	.16	.07	.04	.03	.03	.02	.03	2.14	1.62	1.60	1.47	.53
IN.	.18	.08	.05	.03	.03	.03	.03	2.47	1.80	1.84	1.69	.59
AC-FT	208700	91860	52560	38260	31420	31270	33110	2821000	2057000	2100000	1929000	671900

CAL YR 1983 TOTAL 2337029 MEAN 6403 MAX 118000 MIN 533 CFSM .30 IN 4.06 AC-FT 4635000
WTR YR 1984 TOTAL 5075115 MEAN 13870 MAX 139000 MIN 498 CFSM .65 IN 8.82 AC-FT 10070000

15439800 BOULDER CREEK NEAR CENTRAL

LOCATION.--Lat 65°34'05", long 144°53'13", in NW¼ sec.32, T.9 N., R.14 E., Hydrologic Unit 19030002, on right bank, 2,000 ft upstream from bridge at mile 125.4 on Steese Highway, 0.7 mi upstream from mouth, and 2.3 mi west of Central.

DRAINAGE AREA.--31.3 mi^2.

PERIOD OF RECORD.--Annual maximums, water years 1964-66 and 1983. May 1966 to September 1982 and June to September 1984.

GAGE.--Water-stage recorder. Altitude of gage is 1,075 ft, from topographic map. Aug. 3, 1963 to 1966, crest-stage gage at upstream side of bridge 2,000 ft downstream at different datum. May 23, 1966 to Sept. 27, 1969, water-stage recorder, on downstream side of bridge, at datum 7.02 ft higher than previous datum. Sept. 28, 1969 to July 31, 1971, nonrecording gage on downstream side of bridge, datum of prior recording gage.

REMARKS.--Records poor.

AVERAGE DISCHARGE.--16 years (water years 1967-82), 11.6 ft^3/s, 5.03 in/yr, 8,400 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,410 ft^3/s June 15, 1984, gage height, 10.18 ft, from rating curve extended above 150 ft^3/s on the basis of slope-area measurements at gage heights 7.84 ft and 9.72 ft; no flow at times during winter periods.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,410 ft^3/s June 15, gage height, 10.18 ft, from rating curve extended above 150 ft^3/s on the basis of slope-area measurements at gage heights 7.84 ft and 9.72 ft; minimum daily, during period June to September, 2.0 ft^3/s Sept. 28-30.

DISCHARGE, IN CUBIC FEET PER SECOND, JUNE TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									40	21	7.0	5.6
2									35	20	6.0	5.2
3									30	20	5.4	5.0
4									25	22	5.0	4.7
5									23	26	4.8	4.5
6									21	20	4.6	4.3
7									20	21	4.3	4.0
8									19	20	4.1	3.8
9									18	17	4.1	3.6
10									17	15	5.6	3.4
11									16	24	5.2	3.3
12									17	36	4.9	3.1
13									22	34	4.6	3.0
14									36	34	4.4	2.9
15									480	93	4.2	2.8
16									512	40	4.1	2.7
17									104	24	4.0	2.6
18									56	20	7.0	2.5
19									61	18	6.0	2.5
20									55	16	5.0	5.0
21									38	16	4.6	4.5
22									32	25	4.4	4.5
23									26	20	4.2	4.0
24									24	18	4.1	3.5
25									22	30	6.0	3.5
26									194	26	9.0	3.0
27									225	20	10	3.0
28									56	15	8.0	3.0
29									40	12	7.1	2.0
30									29	10	6.4	2.0
31									---	8.0	6.0	---
TOTAL									2293	741.0	170.1	107.5
MEAN									76.4	23.9	5.49	3.58
MAX									512	93	10	5.6
MIN									16	8.0	4.0	2.0
CFSM									2.44	.76	.18	.11
IN.									2.73	.88	.20	.13
AC-FT									4550	1470	337	213

NOTE.--No gage-height record July 19 to Sept. 30.

15453500 YUKON RIVER NEAR STEVENS VILLAGE

LOCATION.--Lat 65°52'32", long 149°43'04", in SE¼SW¼ sec.7, T. 12 N., R.10 W., Hydrologic Unit 19030002, on right downstream side of pier five, 730 ft from north abutment of bridge, on Dalton Highway, 0.5 mi downstream from Woodcamp Creek, 2.5 mi upstream from Ray river, and 21 mi southwest of Stevens Village.

DRAINAGE AREA.--196,300 mi², approximately.

PERIOD OF RECORD.--October 1976 to current year.

GAGE.--Water-stage recorder. Datum of gage is 240.00 ft National Geodetic Vertical Datum of 1929.

REMARKS.--Records fair except those for period of no gage-height record, Oct. 16 to May 30, which are estimated and poor.

AVERAGE DISCHARGE.--8 years, 118,300 ft³/s, 8.18 in/yr, 85,710,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 670,000 ft³/s about June 9, 1977, gage height, 54.49 ft, from floodmarks; minimum daily, about 17,000 ft³/s Apr. 6-30, 1982.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge observed downstream at Rampart (station no. 15468000), 950,000 ft³/s June 15, 16, 1964.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 422,000 ft³/s May 31, gage height, 44.68 ft; minimum daily, about 19,000 ft³/s Mar. 1-25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	121000	58000	37000	28000	22000	19000	21000	35000	401000	258000	263000	182000
2	116000	56000	37000	28000	22000	19000	21000	35000	376000	253000	273000	183000
3	113000	56000	37000	27000	22000	19000	21000	40000	348000	247000	281000	177000
4	112000	54000	36000	27000	22000	19000	21000	40000	322000	246000	304000	170000
5	113000	52000	35000	27000	22000	19000	23000	40000	300000	255000	316000	164000
6	113000	52000	35000	27000	22000	19000	23000	45000	284000	268000	305000	161000
7	113000	50000	34000	27000	22000	19000	23000	45000	272000	277000	278000	160000
8	112000	50000	34000	27000	22000	19000	23000	45000	264000	282000	252000	160000
9	110000	49000	34000	26000	22000	19000	25000	50000	258000	282000	237000	160000
10	108000	48000	33000	26000	22000	19000	25000	50000	259000	276000	230000	161000
11	105000	48000	33000	26000	21000	19000	25000	60000	260000	267000	225000	162000
12	102000	47000	33000	26000	21000	19000	25000	70000	259000	256000	216000	163000
13	98700	47000	33000	26000	21000	19000	25000	80000	257000	249000	207000	163000
14	94100	46000	32000	26000	21000	19000	27000	100000	262000	248000	200000	160000
15	89400	45000	32000	25000	21000	19000	27000	160000	272000	254000	194000	154000
16	85000	44000	32000	25000	21000	19000	27000	220000	282000	260000	189000	147000
17	82000	44000	31000	25000	21000	19000	27000	240000	301000	255000	183000	140000
18	80000	43000	31000	25000	20000	19000	27000	240000	320000	242000	177000	136000
19	78000	43000	31000	25000	20000	19000	29000	220000	340000	229000	171000	130000
20	76000	42000	31000	24000	20000	19000	29000	200000	350000	222000	169000	130000
21	74000	41000	31000	24000	20000	19000	29000	190000	362000	220000	168000	120000
22	72000	41000	30000	24000	20000	19000	29000	190000	363000	218000	169000	120000
23	70000	40000	30000	24000	20000	19000	29000	200000	360000	216000	173000	120000
24	68000	40000	30000	24000	20000	19000	31000	220000	347000	217000	178000	110000
25	66000	39000	30000	24000	20000	19000	31000	240000	324000	228000	179000	110000
26	64000	39000	29000	23000	20000	20000	31000	280000	300000	252000	176000	110000
27	62000	38000	29000	23000	20000	20000	31000	330000	285000	280000	171000	100000
28	62000	38000	29000	23000	20000	20000	31000	380000	275000	292000	167000	100000
29	60000	38000	29000	23000	20000	20000	35000	400000	270000	281000	164000	100000
30	60000	37000	28000	23000	---	20000	35000	410000	263000	262000	165000	100000
31	58000	---	28000	23000	---	20000	---	420000	---	252000	173000	---
TOTAL	2737200	1365000	994000	781000	607000	595000	806000	5275000	9136000	7844000	6553000	4253000
MEAN	88300	45500	32060	25190	20930	19190	26870	170200	304500	253000	211400	141800
MAX	121000	58000	37000	28000	22000	20000	35000	420000	401000	292000	316000	183000
MIN	58000	37000	28000	23000	20000	19000	21000	35000	257000	216000	164000	100000
CFSM	.45	.23	.16	.13	.11	.10	.14	.87	1.55	1.29	1.08	.72
IN.	.52	.26	.19	.15	.12	.11	.15	1.00	1.73	1.49	1.24	.81
AC-FT	5429000	2707000	1972000	1549000	1204000	1180000	1599000	10460000	18120000	15560000	13000000	8436000

CAL YR 1983 TOTAL 40912200 MEAN 112100 MAX 510000 MIN 19000 CFSM .57 IN 7.75 AC-FT 81150000
WTR YR 1984 TOTAL 40946200 MEAN 111900 MAX 420000 MIN 19000 CFSM .57 IN 7.76 AC-FT 81220000

15457800 HESS CREEK NEAR LIVENGOOD

LOCATION.--Lat 65°39'55", long 149°05'47" in NW¼ sec.30, T.10 N., R.7 W., Hydrologic Unit 19030002, on left bank 30 ft upstream from bridge at mile 22 on Dalton Highway, 1.0 mi downstream from Mastodon Creek, 4.0 mi upstream from Richardson Creek, and 18.6 mi northwest of Livengood.

DRAINAGE AREA.--662 mi^2.

PERIOD OF RECORD.--June 1970 to Sept. 1978, July 1982 to current year.

REVISED RECORDS.--WDR Alaska 1974: 1973.

GAGE.--Water-stage recorder. Datum of gage is 400.00 ft National Geodetic Vertical Datum of 1929 (Alaska Department of Highways temporary bench mark). Prior to Sept. 30, 1978, at site on downstream side of bridge at same datum.

REMARKS.--Records fair except those for period of no gage-height record, Oct. 8 to May 27, which are estimated and poor.

AVERAGE DISCHARGE.--10 years (water years 1971-78, 1983-84), 233 ft^3/s, 4.78 in/yr, 168,800 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 10,000 ft^3/s May 13, 1975, gage height, 66.78 ft, site then in use; no flow during winter period in most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge 4,540 ft^3/s July 22, gage height, 64.37 ft^3/s, no flow Mar. 1 to Apr. 25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	86	11	3.0	1.0	.30	.00	.00	2.0	1130	737	536	588
2	103	11	3.0	1.0	.30	.00	.00	4.0	804	487	473	496
3	319	10	3.0	1.0	.30	.00	.00	10	622	340	440	356
4	350	10	3.0	1.0	.30	.00	.00	30	557	227	464	262
5	299	9.0	3.0	1.0	.30	.00	.00	100	477	182	591	226
6	228	9.0	3.0	.80	.20	.00	.00	500	415	166	528	195
7	170	8.0	3.0	.80	.20	.00	.00	1700	369	146	395	171
8	120	8.0	3.0	.80	.20	.00	.00	1900	377	157	303	164
9	100	8.0	2.0	.80	.20	.00	.00	1800	340	197	262	162
10	80	8.0	2.0	.80	.20	.00	.00	1700	318	202	314	160
11	66	7.0	2.0	.80	.20	.00	.00	1500	273	193	505	140
12	56	7.0	2.0	.80	.20	.00	.00	1400	255	253	571	130
13	48	7.0	2.0	.80	.20	.00	.00	1300	242	749	444	122
14	42	6.0	2.0	.80	.20	.00	.00	1200	214	559	328	113
15	38	6.0	2.0	.80	.20	.00	.00	1400	181	561	253	116
16	34	6.0	2.0	.60	.10	.00	.00	1700	151	732	215	110
17	30	6.0	2.0	.60	.10	.00	.00	1900	182	447	210	102
18	27	5.0	2.0	.60	.10	.00	.00	1600	190	272	208	98
19	25	5.0	2.0	.60	.10	.00	.00	1400	230	192	215	92
20	23	5.0	2.0	.60	.10	.00	.00	1200	479	169	482	86
21	21	5.0	2.0	.40	.10	.00	.00	1100	414	1520	1030	82
22	20	5.0	1.0	.40	.10	.00	.00	1000	555	4140	920	80
23	18	4.0	1.0	.40	.10	.00	.00	1100	982	2490	736	76
24	17	4.0	1.0	.40	.10	.00	.00	1400	747	1210	798	74
25	16	4.0	1.0	.40	.10	.00	.00	1900	732	747	871	70
26	15	4.0	1.0	.30	.10	.00	.50	2300	848	1150	1340	68
27	15	4.0	1.0	.30	.10	.00	.50	2000	860	2740	2220	66
28	14	4.0	1.0	.30	.10	.00	.50	1810	806	1320	1360	64
29	13	3.0	1.0	.30	.10	.00	.50	1550	727	800	903	62
30	12	3.0	1.0	.30	---	.00	1.0	1190	913	654	706	60
31	12	---	1.0	.30	---	.00	---	1380	---	650	622	---
TOTAL	2417	192.0	60.0	19.80	4.90	.00	3.00	39076.0	15390	24389	19243	4591
MEAN	78.0	6.40	1.94	.64	.17	.000	.10	1261	513	787	621	153
MAX	350	11	3.0	1.0	.30	.00	1.0	2300	1130	4140	2220	588
MIN	12	3.0	1.0	.30	.10	.00	.00	2.0	151	146	208	60
CFSM	.12	.01	.003	.001	.000	.000	.000	1.91	.78	1.19	.94	.23
IN.	.14	.01	.00	.00	.00	.00	.00	2.20	.86	1.37	1.08	.26
AC-FT	4790	381	119	39	9.7	.00	6.0	77510	30530	48380	38170	9110

CAL YR 1983 TOTAL 86879.00 MEAN 238 MAX 3170 MIN .00 CFSM .36 IN 4.88 AC-FT 172300
WTR YR 1984 TOTAL 105385.70 MEAN 288 MAX 4140 MIN .00 CFSM .44 IN 5.92 AC-FT 209000

15476000 TANANA RIVER NEAR TANACROSS

LOCATION.--Lat 63°23'18", long 143°44'47", in NE¼ sec. 31, T.19 N., R.9 E., Hydrologic Unit 19030004, on right bank 0.2 mi north of Cathedral Rapids, 0.3 mi downstream from Cathedral Rapids Creek No. 1, 9 mi upstream from Robertson River, and 13 mi west of Tanacross.

DRAINAGE AREA.--8,550 mi^2, approximately.

PERIOD OF RECORD.--June 1953 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,489.58 ft National Geodetic Vertical Datum of 1929. Prior to June 13, 1959, on left bank at site 120 ft upstream at same datum.

REMARKS.--Records estimated and poor for period of no gage-height record prior to May 7, fair thereafter.

AVERAGE DISCHARGE.--31 years, 7,945 ft^3, 12.62 in/yr, 5,756,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 39,100 ft^3/s June 19, 1962, gage height, 11.65 ft; maximum gage height, 11.70 ft July 22, 1975; minimum daily discharge, 1,400 ft^3 Mar. 1-31, 1956.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 27,900 ft^3/s July 29, gage height, 9.97 ft; minimum daily, 2,400 ft^3/s Feb. 16 to Mar. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6000	3700	3000	2700	2500	2400	2800	3500	5940	17600	24900	13200
2	5800	3700	3000	2700	2500	2400	2800	3700	6140	18200	24900	12300
3	5800	3600	3000	2700	2500	2400	2900	3900	6500	18600	25800	11800
4	5600	3600	3000	2700	2500	2400	2900	4200	6760	20600	25600	11600
5	5600	3600	3000	2700	2500	2400	2900	4600	6970	21800	25000	11600
6	5400	3500	2900	2600	2500	2400	2900	5000	7510	21300	25400	11900
7	5200	3500	2900	2600	2500	2400	2900	6000	8390	21400	25500	12200
8	5200	3500	2900	2600	2500	2400	2900	7050	8850	21700	26200	12500
9	5000	3400	2900	2600	2500	2400	3000	7790	8770	23000	26800	12800
10	5000	3400	2900	2600	2500	2400	3000	6440	9150	24500	26400	12700
11	4800	3400	2900	2600	2500	2500	3000	5960	9660	24300	26000	12600
12	4800	3300	2900	2600	2500	2500	3000	6110	10600	24600	25700	12500
13	4700	3300	2900	2600	2500	2500	3000	6260	11300	23000	24500	13200
14	4700	3300	2900	2600	2500	2500	3000	6290	12300	21800	23300	13500
15	4500	3300	2900	2600	2500	2500	3000	5840	14200	20700	21500	12500
16	4500	3300	2800	2600	2400	2600	3100	5350	15900	20500	19800	11400
17	4300	3200	2800	2600	2400	2600	3100	5370	16500	21400	19000	10800
18	4300	3200	2800	2600	2400	2600	3100	5490	16200	23300	19000	10400
19	4200	3200	2800	2600	2400	2600	3100	5710	15700	24400	19600	10100
20	4200	3200	2800	2600	2400	2600	3100	6140	15700	25100	20500	9900
21	4100	3200	2800	2600	2400	2700	3100	6390	15300	23200	20900	9630
22	4100	3100	2800	2600	2400	2700	3100	6500	15200	21200	21200	9480
23	4000	3100	2800	2600	2400	2700	3100	7000	15700	20200	20400	9360
24	4000	3100	2800	2600	2400	2700	3100	7760	16600	19600	18100	9150
25	4000	3100	2800	2600	2400	2700	3200	8040	17200	19700	17100	8880
26	3900	3100	2700	2500	2400	2800	3200	7990	17800	20800	17600	8680
27	3900	3100	2700	2500	2400	2800	3200	7740	19800	23900	18000	8480
28	3800	3000	2700	2500	2400	2800	3300	7380	20600	26700	19600	8300
29	3800	3000	2700	2500	2400	2800	3300	6810	19200	27500	19000	8220
30	3700	3000	2700	2500	---	2800	3400	6290	17800	26600	16400	8100
31	3700	---	2700	2500	---	2800	---	5910	---	25200	14400	---
TOTAL	142600	99000	88200	80500	71100	79800	91500	188510	388240	692400	678100	327780
MEAN	4600	3300	2845	2597	2452	2574	3050	6081	12940	22340	21870	10930
MAX	6000	3700	3000	2700	2500	2800	3400	8040	20600	27500	26800	13500
MIN	3700	3000	2700	2500	2400	2400	2800	3500	5940	17600	14400	8100
CFSM	.54	.39	.33	.30	.29	.30	.36	.71	1.51	2.61	2.56	1.28
IN.	.62	.43	.38	.35	.31	.35	.40	.82	1.69	3.01	2.95	1.43
AC-FT	282800	196400	174900	159700	141000	158300	181500	373900	770100	1373000	1345000	650200

CAL YR 1983 TOTAL 2974520 MEAN 8149 MAX 32600 MIN 2200 CFSM .95 IN 12.94 AC-FT 5900000
WTR YR 1984 TOTAL 2927730 MEAN 7999 MAX 27500 MIN 2400 CFSM .94 IN 12.74 AC-FT 5807000

15484000 SALCHA RIVER NEAR SALCHAKET

LOCATION.--Lat 64°28'22", long 146°55'26", in NE¼ sec.22, T.5 S., R.4 E., Fairbanks North Star Borough, Hydrologic Unit 19030004, on right bank 0.2 mi upstream from bridge on Richardson Highway, 0.5 mi east of Sno-Shu Inn, 2 mi upstream from mouth, and 6 mi southeast of Salchaket.

DRAINAGE AREA.--2,170 mi², approximately.

PERIOD OF RECORD.--July 1909 to August 1910, published as "at mouth" (no winter records), October 1948 to current year.

GAGE.--Water-stage recorder. Datum of gage is 631.85 ft National Geodetic Vertical Datum of 1929. Prior to Aug. 10, 1910, nonrecording gage at site 1.5 mi downstream at different datum. Oct. 1, 1948 to Apr. 24, 1953, nonrecording gage, and Apr. 25, 1953 to Oct. 16, 1967, water-stage recorder at site 800 ft downstream at same datum.

REMARKS.--Records good except those for the period of no gage-height record, Oct. 18 to May 22, which are estimated and poor. NOAA satellite telemetry at station.

AVERAGE DISCHARGE.--36 years (water years 1949-84), 1,645 ft³/s, 10.29 in/yr, 1,192,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 97,000 ft³/s Aug. 14, 1967, gage height, 21.78 ft, present site, from floodmarks, from rating curve extended above 16,000 ft³/s on basis of slope-area measurement and slope-conveyance determination of peak flow; minimum not determined, monthly mean of 60 ft³/s published for March 1953.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 10,000 ft³/s and maximum (*):

Date	Time	Discharge (ft³/s)	Gage height (ft)	Date	Time	Discharge (ft³/s)	Gage height (ft)
June 17	0900	*22,900	*15.35	July 27	2100	13,700	12.81
July 23	1630	12,100	12.29				

Minimum daily discharge, about 160 ft³/s Mar. 26 to Apr. 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2600	780	640	340	240	190	160	290	2130	3900	4630	2540
2	2920	780	620	330	240	190	160	330	2110	3170	4140	2430
3	3050	780	620	330	240	180	160	370	2090	2640	3770	2350
4	2860	760	620	330	240	180	160	420	2060	2290	3490	2310
5	2620	760	600	320	230	180	160	470	2040	3170	3390	2280
6	2510	760	580	320	230	180	160	560	2010	5230	3350	2270
7	2430	760	580	310	230	180	160	660	1990	4270	3180	2230
8	2260	740	560	310	230	180	160	800	1970	4910	2990	2170
9	2180	740	560	310	220	180	160	940	1940	4200	2850	2110
10	1950	740	540	300	220	180	160	1200	1910	3590	2920	2060
11	2100	740	540	300	220	180	160	1600	2200	3730	3290	2020
12	2290	720	520	300	220	170	160	2200	3030	4010	3380	1990
13	2500	720	520	290	220	170	160	2700	2730	3610	3170	1940
14	2430	720	500	290	220	170	160	2800	5060	3450	2920	1880
15	2140	720	480	290	210	170	160	2900	4740	4030	2740	1830
16	1890	700	470	280	210	170	160	2970	14300	8590	2650	1780
17	1530	700	460	280	210	170	160	3100	21500	7310	2750	1740
18	1400	700	450	280	210	170	160	3100	9760	7200	2770	1740
19	1200	700	440	280	200	170	160	3200	6650	5670	2610	1780
20	1000	680	420	270	200	170	160	3400	6340	4740	2490	1740
21	940	680	410	270	200	170	170	3600	6470	4060	2380	1700
22	900	680	400	270	200	170	170	3900	6120	5910	2280	1650
23	880	680	390	270	200	170	180	5110	5060	11100	2210	1600
24	860	660	380	260	200	170	180	6020	4150	8640	2210	1550
25	840	660	370	260	200	170	190	6070	3770	6090	2270	1520
26	820	660	370	260	190	160	190	8260	3400	6170	2570	1490
27	820	660	360	260	190	160	200	6780	3180	11400	3860	1450
28	800	660	350	260	190	160	220	4450	4090	11000	3720	1410
29	800	640	340	250	190	160	240	3310	5520	7590	3290	1370
30	800	640	340	250	---	160	270	2600	4720	6050	2960	1390
31	800	---	340	250	---	160	---	2220	---	5270	2710	---
TOTAL	53120	21320	14770	8920	6200	5340	5210	86330	143040	172990	93940	56320
MEAN	1714	711	476	288	214	172	174	2785	4768	5580	3030	1877
MAX	3050	780	640	340	240	190	270	8260	21500	11400	4630	2540
MIN	800	640	340	250	190	160	160	290	1910	2290	2210	1370
CFSM	.79	.33	.22	.13	.10	.08	.08	1.28	2.20	2.57	1.40	.87
IN.	.91	.37	.25	.15	.11	.09	.09	1.48	2.45	2.97	1.61	.97
AC-FT	105400	42290	29300	17690	12300	10590	10330	171200	283700	343100	186300	111700

CAL YR 1983 TOTAL 537733 MEAN 1473 MAX 6350 MIN 150 CFSM .68 IN 9.22 AC-FT 1067000
WTR YR 1984 TOTAL 667500 MEAN 1824 MAX 21500 MIN 160 CFSM .84 IN 11.44 AC-FT 1324000

15485500 TANANA RIVER AT FAIRBANKS

LOCATION.--Lat 64°47'54", long 147°46'32", in SW¼ sec.28, T.1 S., R.1 W., Fairbanks North Star Borough, Hydrologic Unit 19030004, on right bank at south end of Peger Road in Fairbanks, 2.9 mi southeast of Fairbanks International Airport, and 4.6 mi upstream from the Chena River.

DRAINAGE AREA.--Undefined. Part of river flows through Salachaket Slough and is ungaged.

PERIOD OF RECORD.--June 1973 to current year.

GAGE.--Water-stage recorder. Datum of gage is 400.00 ft National Geodetic Vertical Datum of 1929. Nonrecording gage prior to Sept. 14, 1973 at same site and datum.

REMARKS.--Records poor.

AVERAGE DISCHARGE.--11 years, 19,240 ft³/s, 13,940,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 87,700 ft³/s June 17, 1984, gage height, 32.85 ft; minimum daily, 3,100 ft³/s Feb. 14 to Mar. 31, 1974.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Aug. 16, 1967 reached a stage of 34.4 ft, from floodmarks; discharge, about 125,000 ft³/s, contained in reports of the Corps of Engineers.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 87,700 ft³/s June 17, gage height, 32.85 ft; minimum daily, 5,000 ft³/s Feb. 1-29.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21900	13000	8000	5600	5000	5200	5600	7800	18600	54800	60700	34700
2	23700	13000	7800	5600	5000	5200	5600	8200	18400	51000	59000	31300
3	24200	13000	7800	5600	5000	5200	5600	8600	18300	49400	58000	29000
4	23700	12000	7600	5600	5000	5200	5600	9000	18400	48900	59800	27000
5	23100	12000	7600	5400	5000	5200	5600	10000	18500	52100	62000	26500
6	22800	12000	7400	5400	5000	5200	5600	11000	18500	62500	63700	26100
7	22200	12000	7400	5400	5000	5200	5600	12000	18800	63400	62900	25900
8	21100	12000	7200	5400	5000	5200	5600	14000	19800	62000	59800	26100
9	19300	11000	7200	5400	5000	5200	5600	18000	20200	60000	58000	26200
10	18900	11000	7000	5400	5000	5200	5600	20000	21200	56000	59100	26200
11	18800	11000	7000	5400	5000	5200	5800	21000	23800	54000	57300	26100
12	19700	11000	6800	5400	5000	5200	5800	21000	26400	54000	55200	25800
13	21300	11000	6800	5400	5000	5200	5800	20000	28800	54000	53100	25700
14	21000	10000	6600	5400	5000	5200	5800	18000	38200	52000	50500	24800
15	20000	10000	6600	5400	5000	5200	5800	18000	42200	52000	48500	25100
16	19000	10000	6400	5200	5000	5400	6000	20000	60000	52000	47400	25300
17	19000	9800	6400	5200	5000	5400	6000	21000	83100	54000	46800	24500
18	18000	9600	6400	5200	5000	5400	6000	22900	74900	58000	47300	23300
19	18000	9400	6200	5200	5000	5400	6200	24900	55000	60000	48000	22900
20	17000	9200	6200	5200	5000	5400	6400	26000	51000	58000	49000	22500
21	17000	9000	6200	5200	5000	5400	6400	26100	50700	58000	51000	22200
22	16000	9000	6200	5200	5000	5400	6600	25800	52000	58000	49700	21300
23	16000	8800	6000	5200	5000	5400	6600	26700	49800	60000	46100	20200
24	15000	8800	6000	5200	5000	5400	6800	28700	49200	62800	46200	19100
25	15000	8600	6000	5200	5000	5400	7000	30900	49100	59800	46500	18400
26	15000	8600	6000	5200	5000	5400	7000	31300	48200	63300	47800	18000
27	14000	8400	5800	5200	5000	5400	7200	31100	48700	69600	48400	17500
28	14000	8400	5800	5200	5000	5400	7200	27300	52900	75200	45100	17000
29	14000	8200	5800	5200	5000	5400	7400	23600	55900	68300	41400	16300
30	13000	8200	5800	5200	---	5400	7600	21500	56700	64300	39800	16200
31	13000	---	5600	5200	---	5400	---	19500	---	62600	37900	---
TOTAL	574700	308000	205600	165000	145000	164400	185400	623900	1187300	1810000	1606000	711200
MEAN	18540	10270	6632	5323	5000	5303	6180	20130	39580	58390	51810	23710
MAX	24200	13000	8000	5600	5000	5400	7600	31300	83100	75200	63700	34700
MIN	13000	8200	5600	5200	5000	5200	5600	7800	18300	48900	37900	16200
AC-FT	1140000	610900	407800	327300	287600	326100	367700	1238000	2355000	3590000	3186000	1411000

CAL YR 1983 TOTAL 7539100 MEAN 20660 MAX 71100 MIN 5000 AC-FT 14950000
WTR YR 1984 TOTAL 7686500 MEAN 21000 MAX 83100 MIN 5000 AC-FT 15250000

NOTE.--No gage-height record Oct. 29 to May 6.

15493000 CHENA RIVER NEAR TWO RIVERS

LOCATION.--Lat 64°53'55", long 146°24'42", in SW¼ sec.19, T.1 N., R.7 E., Fairbanks North Star Borough, Hydrologic Unit 19030004, on downstream side of bridge near midspan at mile 37.9 on the Chena Hot Springs Highway, 12.5 mi upstream from South Fork Chena River, 20 mi east of Two Rivers, and 39 mi east of Fairbanks.

DRAINAGE AREA.--941 mi^2.

PERIOD OF RECORD.--October 1967 to current year.

GAGE.--Water-stage recorder. Datum of gage is 700.00 ft National Geodetic Vertical Datum of 1929 (Alaska Department of Highways TBM).

REMARKS.--Records good except those for period of no gage-height record, Oct. 17 to May 6, which are estimated and poor. NOAA satellite telemetry at station.

AVERAGE DISCHARGE.--17 years, 659 ft^3/s, 9.51 in/yr, 477,400 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 16,800 ft^3/s May 12, 1975, gage height, 21.05 ft; minimum daily, 20 ft^3/s Feb. 6 to Mar. 12, 1970.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Aug. 13, 1967 reached a stage of 26.6 ft, from floodmarks, discharge not determined.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 9,730 ft^3/s June 16, gage height, 19.55 ft; minimum daily, 100 ft^3/s Apr. 1-19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1080	400	300	180	130	110	100	500	1020	1450	1990	1280
2	1170	390	300	180	130	110	100	650	872	1210	1810	1220
3	1180	390	300	180	130	110	100	800	819	1050	1690	1170
4	1110	380	300	170	130	110	100	1200	791	974	1690	1130
5	1060	370	290	170	130	110	100	1600	740	3730	1810	1100
6	1050	370	290	170	130	110	100	2000	696	2810	1700	1070
7	1000	360	290	170	130	110	100	2120	707	2200	1560	1050
8	934	360	280	170	130	110	100	2190	702	2180	1450	1020
9	841	350	280	160	130	110	100	2130	683	1750	1450	994
10	879	350	280	160	130	110	100	2240	675	1450	1700	968
11	950	350	270	160	120	110	100	1650	672	1320	1920	945
12	1730	340	270	160	120	110	100	1020	672	1300	1790	920
13	1910	340	260	160	120	110	100	864	772	1250	1620	896
14	1630	340	260	150	120	110	100	983	1610	1270	1470	876
15	1190	330	260	150	120	110	100	1390	2530	1530	1390	861
16	914	330	250	150	120	110	100	2130	8320	2130	1410	847
17	800	330	250	150	120	110	100	2550	7350	2670	1460	831
18	680	320	240	150	120	110	100	3140	3710	2220	1400	815
19	600	320	240	150	120	110	100	3320	2780	1740	1340	819
20	560	320	240	140	120	110	110	2920	2470	1480	1390	818
21	520	320	230	140	120	110	110	2490	2810	2030	1250	803
22	500	310	230	140	120	110	120	2380	2370	6160	1210	786
23	490	310	220	140	120	110	130	2450	1770	6040	1180	772
24	470	310	220	140	120	110	140	3470	1660	3870	1190	758
25	460	310	210	140	120	110	160	3650	1510	2890	1220	749
26	450	310	210	140	120	110	180	4030	1360	4210	1640	739
27	440	310	200	140	120	110	200	2470	1510	5090	1980	727
28	430	300	200	140	120	110	230	1620	2330	3890	1780	718
29	420	300	190	130	120	110	280	1270	2230	2980	1590	710
30	410	300	190	130	---	110	350	1090	1760	2550	1460	712
31	400	---	190	130	---	110	---	1080	---	2240	1360	---
TOTAL	26258	10120	7740	4740	3580	3410	3910	61397	57901	77664	47900	27104
MEAN	847	337	250	153	123	110	130	1981	1930	2505	1545	903
MAX	1910	400	300	180	130	110	350	4030	8320	6160	1990	1280
MIN	400	300	190	130	120	110	100	500	672	974	1180	710
CFSM	.90	.36	.27	.16	.13	.12	.14	2.11	2.05	2.66	1.64	.96
IN.	1.04	.40	.31	.19	.14	.13	.15	2.43	2.29	3.07	1.89	1.07
AC-FT	52080	20070	15350	9400	7100	6760	7760	121800	114800	154000	95010	53760

CAL YR 1983 TOTAL 229928 MEAN 630 MAX 3080 MIN 50 CFSM .67 IN 9.09 AC-FT 456100
WTR YR 1984 TOTAL 331724 MEAN 906 MAX 8320 MIN 100 CFSM .96 IN 13.11 AC-FT 658000

15493700 CHENA RIVER BELOW MOOSE CREEK DAM

LOCATION.--Lat 64°48'03", long 147°13'40", in SE¼NW¼ sec.30, T.1 S., R.3 E., Fairbanks North Star Borough, Hydrologic Unit 19030004, on left bank just downstream from left seepage ditch, 1.4 mi upstream from Potlatch Creek, 3.1 mi downstream from Moose Creek Dam, 5.0 mi northeast of North Pole, and 14.7 mi east of Fairbanks.

DRAINAGE AREA.--1,430 mi².

PERIOD OF RECORD.--August 1979 to current year. Records for May 1972 to September 1980 at site 1.8 mi upstream published as "near North Pole" (station 15493500), may not be equivalent owing to ground-water inflow and seepage through the dam.

GAGE.--Water-stage recorder. Altitude of gage is 490 ft, from topographic map.

REMARKS.--Records fair except those for the period of no gage height record, Oct. 31 to May 7, which are estimated and poor. Higher flows were regulated by Moose Creek Dam June 16-23 and July 23-28.

AVERAGE DISCHARGE.--5 years, 892 ft³/s, 8.47 in/yr, 646,300 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,120 ft³/s July 23, 1984, gage height, 44.31 ft; minimum daily, 78 ft³/s Mar. 16 to Apr. 12, 1983.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 8,120 ft³/s July 23, gage height, 44.31 ft; minimum daily, 120 ft³/s Apr. 1-19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1650	640	430	210	160	140	120	540	1800	1970	3020	1830
2	1580	620	430	210	160	140	120	680	1620	1710	2740	1670
3	1400	600	430	200	160	140	120	840	1470	1420	2550	1580
4	1430	580	420	200	160	140	120	1200	1390	1250	2410	1490
5	1400	580	410	200	160	140	120	1800	1300	1290	2380	1430
6	1300	560	410	200	160	140	120	2500	1200	3490	2390	1360
7	1300	560	400	190	160	140	120	2800	1100	2920	2270	1320
8	1200	540	390	190	150	140	120	2880	1000	2740	2110	1280
9	1200	540	380	190	150	140	120	2930	1000	2630	2030	1240
10	1100	520	370	190	150	130	120	3120	980	2240	2060	1210
11	1350	520	360	180	150	130	120	3140	960	1870	2220	1180
12	1710	500	350	180	150	130	120	2440	870	1670	2430	1140
13	2000	500	330	180	150	130	120	1770	865	1560	2310	1120
14	2210	490	320	180	150	130	120	1550	1150	1480	2140	1090
15	2000	490	300	180	150	130	120	1710	2280	1430	1950	1070
16	1900	480	290	180	150	130	120	2290	2830	1700	1850	1040
17	1700	480	290	180	150	130	120	2990	2580	2080	1860	1020
18	1500	470	280	170	150	130	120	3360	2800	2540	1840	1000
19	1300	470	270	170	150	130	120	3780	2920	2190	1770	985
20	1100	460	270	170	150	130	130	3840	3270	1870	1680	980
21	1000	460	260	170	140	130	140	3590	4610	1650	1640	970
22	960	450	250	170	140	130	160	3340	5910	3190	1570	950
23	900	450	250	170	140	130	180	3340	3830	6990	1520	930
24	860	450	240	170	140	130	200	3510	3600	7270	1470	910
25	820	440	240	170	140	130	230	3980	2760	4540	1480	890
26	780	440	230	170	140	130	260	4440	2490	3780	1530	870
27	740	440	230	170	140	130	290	4230	2190	5020	2150	850
28	720	430	220	160	140	130	330	3250	2080	6100	2560	830
29	700	430	220	160	140	130	390	2620	2570	4560	2390	820
30	680	430	220	160	---	130	460	2200	2350	3750	2210	815
31	660	---	210	160	---	130	---	1910	---	3330	2000	---
TOTAL	39150	15020	9700	5580	4330	4120	5050	82570	65755	90230	64530	33870
MEAN	1263	501	313	180	149	133	168	2664	2192	2911	2082	1129
MAX	2210	640	430	210	160	140	460	4440	5910	7270	3020	1830
MIN	660	430	210	160	140	130	120	540	865	1250	1470	815
CFSM	.88	.35	.22	.13	.10	.09	.12	1.86	1.53	2.04	1.46	.79
IN.	1.02	.39	.25	.15	.11	.11	.13	2.15	1.71	2.35	1.68	.88
AC-FT	77650	29790	19240	11070	8590	8170	10020	163800	130400	179000	128000	67180

CAL YR 1983 TOTAL 321721 MEAN 881 MAX 3850 MIN 78 CFSM .62 IN 8.37 AC-FT 638100
WTR YR 1984 TOTAL 419905 MEAN 1147 MAX 7270 MIN 120 CFSM .80 IN 10.92 AC-FT 832900

15511000 LITTLE CHENA RIVER NEAR FAIRBANKS

LOCATION.--Lat 64°53'10", long 147°14'50", in SW¼NE¼ sec.25, T.1 N., R.2 E., Fairbanks North Star Borough, Hydrologic Unit 19030004, on downstream side of left bridge abutment at mi 11.9 on Chena Hot Springs Highway, 22.5 mi upstream from mouth, and 14 mi northeast of Fairbanks.

DRAINAGE AREA.--372 mi^2.

PERIOD OF RECORD.--August 1966 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 490 ft, from topographic map.

REMARKS.--Records fair except those for period of no gage-height record, Oct. 16 to May 13, which are estimated and poor. NOAA satellite telemetry at station.

AVERAGE DISCHARGE.--18 years, 206 ft^3/s, 7.52 in/yr, 149,200 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 17,000 ft^3/s Aug. 13, 1967, gage height, 31.95 ft, from rating curve extended above 3,000 ft^3/s on basis of contracted-opening determination of peak flow; no flow Mar. 11 to Apr. 15, 1967.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,680 ft^3/s July 27, gage height 21.15 ft; minimum daily, 36 ft^3/s Feb. 26 to Mar. 3.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	378	180	130	72	50	36	50	200	407	381	537	385
2	371	180	130	70	48	36	50	300	335	319	513	362
3	357	180	130	70	48	36	50	500	302	263	501	345
4	339	180	130	70	48	38	50	800	283	240	490	331
5	330	170	130	70	48	40	50	1000	259	237	497	320
6	336	170	120	68	46	42	50	900	237	235	480	311
7	320	170	120	68	46	42	50	740	224	249	448	308
8	296	170	120	68	46	44	50	660	212	288	416	304
9	281	160	120	68	46	46	50	620	198	278	409	294
10	308	160	120	66	44	48	50	600	185	253	472	291
11	335	160	110	66	44	50	50	580	175	238	500	289
12	578	160	110	66	44	50	50	560	168	231	456	284
13	667	160	110	66	44	50	50	540	185	224	417	275
14	588	150	100	64	42	50	50	530	244	219	387	269
15	494	150	100	64	42	50	50	560	279	215	369	265
16	400	150	98	64	42	50	50	681	401	210	365	260
17	330	150	96	64	40	50	52	779	866	201	367	256
18	300	150	94	62	40	50	52	845	672	194	354	252
19	270	150	92	62	40	50	54	868	620	188	341	251
20	250	140	90	60	40	50	56	830	559	190	331	256
21	240	140	88	60	38	50	58	758	553	250	328	249
22	230	140	86	58	38	50	60	672	464	1190	317	244
23	220	140	84	58	38	50	64	624	369	1400	312	237
24	220	140	82	56	38	50	68	720	309	846	329	231
25	210	140	80	56	38	50	72	793	273	635	337	228
26	210	140	78	54	36	50	76	1130	252	925	469	227
27	200	140	78	54	36	50	80	855	281	1520	577	223
28	200	140	76	52	36	50	90	626	447	1020	527	218
29	200	140	74	52	36	50	100	518	500	774	485	214
30	190	140	74	50	---	50	140	456	418	662	443	221
31	190	---	72	50	---	50	---	435	---	586	409	---
TOTAL	9838	4640	3122	1928	1222	1458	1822	20680	10677	14661	13183	8200
MEAN	317	155	101	62.2	42.1	47.0	60.7	667	356	473	425	273
MAX	667	180	130	72	50	50	140	1130	866	1520	577	385
MIN	190	140	72	50	36	36	50	200	168	188	312	214
CFSM	.85	.42	.27	.17	.11	.13	.16	1.79	.96	1.27	1.14	.73
IN.	.98	.46	.31	.19	.12	.15	.18	2.07	1.07	1.47	1.32	.82
AC-FT	19510	9200	6190	3820	2420	2890	3610	41020	21180	29080	26150	16260

CAL YR 1983 TOTAL 77396 MEAN 212 MAX 1080 MIN 30 CFSM .57 IN 7.74 AC-FT 153500
WTR YR 1984 TOTAL 91431 MEAN 250 MAX 1520 MIN 36 CFSM .67 IN 9.14 AC-FT 181400

YUKON ALASKA

15514000 CHENA RIVER AT FAIRBANKS

LOCATION.--Lat 64°50'45", long 147°42'04", in NW¼ sec. 11, T. 1 S., R. 1 W., Fairbanks North Star Borough, Hydrologic Unit 19030004, on right bank 100 ft downstream from Steese Highway Bridge, 800 ft upstream from Wendell Street bridge, 0.3 mi upstream from Noyes Slough, 11 mi upstream from mouth, and 11 mi downstream from Chena slough.

DRAINAGE AREA.--1,980 mi², approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1947 to September 1948 (no winter records), October 1948 to current year.

GAGE.--Water-stage recorder and nonrecording gage used as supplementary gage. Datum of gage is 422.92 ft National Geodetic Vertical Datum of 1929. See WSP 1936 and 2136 for history of changes prior to Apr. 27, 1968.

REMARKS.--Records fair except those for period of no gage-height record, Oct. 7 to May 15, which are estimated and poor. One miscellaneous water-quality sample and observation of water temperature was made during the year. Flows on June 16-23 and July 23-28 regulated by Moose Creek Dam 31.8 mi upstream.

AVERAGE DISCHARGE.--36 years (water years 1949-1984), 1,389 ft³/s, 9.53 in/yr, 1,006,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 74,400 ft³/s Aug. 15, 1967, gage height, 18.82 ft, site then in use; minimum not determined, monthly means of 120 ft³/s published for February 1953 and March 1958.

EXTREMES OUTSIDE PERIOD OF RECORD--Outstanding floods in early May 1905 and 1911 reached stages of about 17 ft and 16 ft respectively, present site and datum, probably some backwater from ice, from profile of floodmarks in a report by Corps of Engineers. Flood of late August 1930 reached a stage of 16.8 ft, present site and datum, from information in above report. Flood of May 11-14, 1937 reached a stage of 15.7 ft, present datum, from floodmarks at Cushman Street bridge, 16.5 ft, present site and datum, from above report, backwater from ice. Prior to construction of a dike in 1941, it was possible for flood waters from the Tanana River in Piledriver Slough to be diverted to the Chena River through Chena Slough.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 8,360 ft³/s July 24, gage height, 7.93 ft; minimum daily, 300 ft³/s Mar. 13 to Apr. 19.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2040	980	760	420	340	310	300	660	2340	2640	3920	2340
2	2070	960	760	420	340	310	300	900	2180	2360	3540	2210
3	2120	940	760	420	340	310	300	1200	2010	2100	3240	2110
4	2150	940	760	410	330	310	300	1800	1890	1890	3050	2030
5	2110	920	740	410	330	310	300	2500	1770	1740	2950	1950
6	2070	900	740	410	330	310	300	3200	1680	2830	2950	1890
7	2040	880	720	410	330	310	300	3700	1570	3550	2870	1840
8	2000	880	720	410	330	310	300	4200	1510	3020	2710	1820
9	1870	860	700	400	320	310	300	4500	1480	3040	2580	1780
10	1830	860	680	400	320	310	300	4700	1440	2720	2520	1730
11	1830	840	660	400	320	310	300	4800	1370	2380	2680	1700
12	1940	840	640	400	320	310	300	4400	1320	2160	2860	1600
13	2580	840	620	400	310	300	300	3600	1310	2060	2850	1600
14	3010	820	600	390	310	300	300	2800	1380	1960	2670	1500
15	2830	820	580	390	310	300	300	2500	2070	1920	2460	1500
16	2350	820	560	390	310	300	300	2590	2890	1910	2360	1500
17	2000	820	540	390	310	300	300	3320	3230	2280	2320	1400
18	1800	820	520	380	310	300	300	3800	3330	2540	2310	1400
19	1600	820	520	380	310	300	300	4300	3400	2600	2260	1400
20	1500	800	500	380	310	300	310	4640	3460	2290	2200	1400
21	1400	800	500	380	310	300	320	4640	4640	2130	2140	1300
22	1300	800	480	370	310	300	330	4020	6210	2670	2100	1300
23	1200	800	480	370	310	300	340	3950	5510	6790	2050	1300
24	1200	800	460	370	310	300	360	3900	3830	8270	2000	1300
25	1100	800	460	360	310	300	380	4620	3250	6820	1990	1200
26	1100	780	440	360	310	300	400	5110	2950	5110	2000	1200
27	1100	780	440	360	310	300	430	5800	2710	6180	2300	1200
28	1000	780	430	350	310	300	460	4390	2510	7580	2910	1200
29	1000	780	430	350	310	300	500	3270	2840	6910	2870	1100
30	1000	780	430	340	---	300	540	2820	2970	5310	2670	1100
31	1000	---	420	340	---	300	---	2480	---	4440	2480	---
TOTAL	54140	25260	18050	11960	9220	9420	10070	109110	79250	110200	80810	46900
MEAN	1746	842	582	386	318	304	336	3520	2642	3555	2607	1563
MAX	3010	980	760	420	340	310	540	5800	6210	8270	3920	2340
MIN	1000	780	420	340	310	300	300	660	1310	1740	1990	1100
CFSM	.88	.43	.29	.20	.16	.15	.17	1.78	1.33	1.80	1.32	.79
IN.	1.02	.47	.34	.22	.17	.18	.19	2.05	1.49	2.07	1.52	.88
AC-FT	107400	50100	35800	23720	18290	18680	19970	216400	157200	218600	160300	93030

CAL YR 1983 TOTAL 441921 MEAN 1211 MAX 4650 MIN 200 CFSM .61 IN 8.30 AC-FT 876600
WTR YR 1984 TOTAL 564390 MEAN 1542 MAX 8270 MIN 300 CFSM .78 IN 10.60 AC-FT 1119000

15514000 CHENA RIVER AT FAIRBANKS--Continued

WATER QUALITY RECORDS

PERIOD OF RECORD.--Water years 1948-58, 1962-72, 1974-76, 1983 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS) (00061)	TEMPERATURE, AIR (DEG C) (00020)	TEMPERATURE (DEG C) (00010)	TRITIUM TOTAL (PCI/L) (07000)	H-2/ H-1/ STABLE ISOTOPE RATIO PER MILL (82082)	O-18/ O-16 STABLE ISOTOPE RATIO PER MIL (82085)
MAY							
21...	1130	4620	18.0	4.0	<200	-162.0	-20.7

15515500 TANANA RIVER AT NENANA
(National stream-quality accounting network station)

LOCATION.--Lat 64°33'55", long 149°05'30", in SE¼ sec.14, T.4 S., R.8 W., Hydrologic Unit 19030004, on left bank on east end of Alaska Railroad dock in Nenana and 0.3 mi upstream from Nenana River.

DRAINAGE AREA.--25,600 mi^2, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1962 to current year.

REVISED RECORDS.--WSP 2136: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 338.50 ft National Geodetic Vertical Datum of 1929. Prior to Mar. 10. 1965, on right bank 280 ft downstream from railroad bridge 0.5 mi upstream at present datum. Mar. 10, 1965 to Mar 23, 1968, nonrecording gage on railroad bridge 0.5 mi upstream at present datum.

REMARKS.--Records good except those for period of no gage-height record, Oct. 16 to May 14, which are estimated and poor. NOAA Satellite telemetry at station.

AVERAGE DISCHARGE.--22 years, 23,630 ft^3/s, 12.54 in/yr, 17,120,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 186,000 ft^3/s Aug. 18, 1967, gage height, 18.90 ft, site then in use; minimum daily, 4,000 ft^3/s Mar. 6-20, 1974.

EXTREMES OUTSIDE PEROD OF RECORD.--Flood of May 1948 reached a stage of 15.9 ft, discharge, about 135,000 ft^3/s. contained in reports of Corps of Engineers.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 94,500 ft^3/s June 18, gage height, 12.50 ft; minimum daily, 6.200 ft^3/s Jan. 22 to Feb. 20.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27300	17000	10000	7000	6200	6600	7600	9200	24700	65300	75200	41000
2	28600	16000	10000	7000	6200	6600	7600	9200	24400	62400	72000	39000
3	29000	16000	10000	7000	6200	6600	7600	9600	24500	59900	69600	36000
4	28300	16000	10000	6800	6200	6600	7600	9600	24500	58400	69400	34000
5	27800	15000	10000	6800	6200	6600	7600	10000	24700	59100	71000	33000
6	27600	15000	9600	6800	6200	6800	8000	12000	24600	63600	72600	32000
7	27000	15000	9400	6800	6200	6800	8000	13000	24900	68900	73800	31700
8	26800	15000	9400	6600	6200	6800	8000	16000	25600	68000	71100	31600
9	26800	14000	9200	6600	6200	7000	8000	20000	26200	67300	68200	31500
10	26400	14000	9200	6600	6200	7000	8000	22000	27400	63300	67100	30800
11	25900	14000	9000	6600	6200	7000	8000	23000	30400	58800	66500	30300
12	25800	14000	9000	6400	6200	7200	8000	23000	32000	58300	63300	30200
13	26100	13000	8800	6400	6200	7200	8000	22000	35000	58900	60400	29900
14	26800	13000	8800	6400	6200	7200	8000	21000	38000	58000	56900	29500
15	26500	13000	8600	6400	6200	7200	8000	20400	48000	57400	54300	29000
16	26000	13000	8400	6400	6200	7400	8400	20500	62000	57700	51900	28900
17	25000	13000	8400	6400	6200	7400	8400	22500	80000	62300	50800	28500
18	24000	12000	8200	6400	6200	7400	8400	25700	93400	65600	50500	27600
19	23000	12000	8200	6400	6200	7400	8400	29500	81800	70600	51200	27100
20	22000	12000	8000	6400	6200	7400	8400	32000	69000	68200	54700	27000
21	22000	12000	8000	6400	6400	7400	8800	33000	65100	65900	58700	26800
22	21000	12000	8000	6200	6400	7400	8800	33400	66400	66400	58700	26300
23	21000	11000	7800	6200	6400	7400	8800	35000	66200	67200	55200	25500
24	20000	11000	7800	6200	6400	7400	8800	36800	63700	70900	54700	25000
25	20000	11000	7600	6200	6400	7400	8800	39900	62000	70600	56100	24000
26	19000	11000	7600	6200	6400	7600	9000	40200	60800	74400	57900	23000
27	19000	11000	7400	6200	6400	7600	9000	39400	60500	83800	59300	22000
28	18000	11000	7400	6200	6400	7600	9000	36600	63200	90500	56100	22000
29	18000	10000	7200	6200	6400	7600	9000	31700	65800	91800	54700	21000
30	17000	10000	7200	6200	---	7600	9000	28500	66400	85800	54700	21000
31	17000	---	7200	6200	---	7600	---	26200	---	79100	54700	---
TOTAL	738700	392000	265400	200600	181600	222800	249000	750900	1461200	2098400	1891300	865200
MEAN	23830	13070	8561	6471	6262	7187	8300	24220	48710	67690	61010	28840
MAX	29000	17000	10000	7000	6400	7600	9000	40200	93400	91800	75200	41000
MIN	17000	10000	7200	6200	6200	6600	7600	9200	24400	57400	50500	21000
CFSM	.93	.51	.33	.25	.25	.28	.32	.95	1.90	2.64	2.38	1.13
IN.	1.07	.57	.39	.29	.26	.32	.36	1.09	2.12	3.05	2.75	1.26
AC-FT	1465000	777500	526400	397900	360200	441900	493900	1489000	2898000	4162000	3751000	1716000

CAL YR 1983 TOTAL 9111400 MEAN 24960 MAX 82800 MIN 6600 CFSM .98 IN 13.24 AC-FT 18070000
WTR YR 1984 TOTAL 9317100 MEAN 25460 MAX 93400 MIN 6200 CFSM 1.00 IN 13.54 AC-FT 18480000

YUKON ALASKA

15515500 TANANA RIVER AT NENANA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1954-56, 1963-64, 1966-75, and 1978 to current year

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	SPE-CIFIC CON-DUCT-ANCE (UMHOS) (00095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE, AIR (DEG C) (00020)	TEMPER-ATURE (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREP-TOCOCC FECAL. KF AGAR (COLS. PER 100 ML (3167
OCT 03...	1300	29000	218	6.7	.0	2.5	6.5	767	15.9	116	33	2
JAN 09...	1140	6710	306	6.8	-25.0	.0	3.5	765	6.4	44	K20	K
MAR 14...	1230	7230	294	7.3	-6.0	.0	4.9	757	8.3	57	--	--
JUL 19...	1200	71000	192	7.3	18.0	12.0	400	762	9.9	92	130	16

DATE	HARD-NESS (MG/L AS CACO3) (00900)	HARD-NESS, NONCAR-BONATE (MG/L CACO3) (00902)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	BICAR-BONATE IT-FLD (MG/L AS HCO3) (99440)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)
OCT 03...	120	49	34	8.3	3.9	6.5	114	32	1.5	.10	10
JAN 09...	150	46	44	9.2	4.3	2.4	--	33	1.3	.10	15
MAR 14...	140	35	43	9.0	4.2	2.4	162	31	1.6	.10	14
JUL 19...	91	39	27	5.8	2.9	2.3	85	28	1.2	.10	6.4

DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P) (00671)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
OCT 03...	148	140	.12	.070	.70	.300	<.010	.010	686	53700	39
JAN 09...	190	170	.23	.140	.20	.010	.010	<.010	65	1180	80
MAR 14...	187	170	.18	.100	.30	.030	.010	.030	58	1130	82
JUL 19...	123	110	<.10	.060	2.0	1.60	.030	.010	3710	711000	73

DATE	TIME	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)
JAN 09...	1140	<10	2	55	<.5	<1	<1	<3	6	33	1
JUL 19...	1200	50	2	31	<1	<1	<1	<3	10	53	<1

DATE	LITHIUM DIS-SOLVED (UG/L AS LI) (01130)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)
JAN 09...	10	100	.1	<10	3	1	<1	190	<6	25
JUL 19...	16	11	<.1	<10	<1	<1	<1	110	<6	9

K NON-IDEAL COLONY COUNT

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15535000 CARIBOU CREEK NEAR CHATANIKA

LOCATION.--Lat 65°09'00", long 147°33'05", in NW¼NE¼ sec.28, T.4 N., R.1 E., Fairbanks North Star Borough, Hydrologic Unit 19030004, on left bank 2.0 mi upstream from mouth, 3.5 mi northwest of Chatanika, and 21.6 mi north of Fairbanks.

DRAINAGE AREA.--9.19 mi².

PERIOD OF RECORD.--October 1969 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 870 ft, from topographic map.

REMARKS.--Records poor except those for period of no gage-height record, Oct. 15 to May 17, which are estimated and poor.

AVERAGE DISCHARGE.--15 years, 5.33 ft³/s, 7.88 in/yr, 3,860 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 184 ft³/s June 16, 1984, gage height, 3.64 ft, from rating curve extended above 40 ft³/s; no flow Dec. 11, 1975 to Apr. 4, 1976.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 184 ft³/s June 16, gage height, 3.64 ft, from rating curve extended above 40 ft³/s; minimum daily, 2.6 ft³/s Jan. 6 to Feb. 15.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	12	5.0	2.8	2.6	3.0	3.4	17	19	7.4	9.1	8.7
2	20	12	5.0	2.8	2.6	3.0	3.4	14	14	5.8	10	8.0
3	19	12	5.0	2.8	2.6	3.0	3.4	11	13	5.3	11	8.0
4	18	12	4.0	2.8	2.6	3.0	3.4	11	11	5.1	11	7.7
5	18	12	4.0	2.8	2.6	3.0	3.4	14	9.8	4.9	9.8	7.4
6	18	12	4.0	2.6	2.6	3.2	3.4	14	8.7	5.1	9.4	7.7
7	18	11	4.0	2.6	2.6	3.2	3.4	15	8.7	7.7	8.7	7.7
8	18	11	4.0	2.6	2.6	3.2	3.4	16	7.7	6.9	8.0	7.7
9	18	11	4.0	2.6	2.6	3.2	3.4	20	8.0	6.1	8.7	7.4
10	18	11	4.0	2.6	2.6	3.2	3.4	16	6.6	5.8	10	7.4
11	23	11	4.0	2.6	2.6	3.2	3.4	14	4.0	9.4	9.8	7.1
12	27	10	3.0	2.6	2.6	3.2	3.4	9.0	4.2	7.1	9.1	6.9
13	22	10	3.0	2.6	2.6	3.2	3.4	10	4.9	6.1	8.0	6.9
14	21	9.0	3.0	2.6	2.6	3.4	3.4	11	6.6	5.6	7.7	6.6
15	20	9.0	3.0	2.6	2.6	3.4	3.6	15	9.8	5.3	7.7	6.6
16	19	8.0	3.0	2.6	2.8	3.4	3.6	25	60	5.1	7.7	6.6
17	18	8.0	3.0	2.6	2.8	3.4	3.6	40	46	4.9	7.7	6.3
18	18	8.0	3.0	2.6	2.8	3.4	3.6	40	15	4.7	7.4	6.3
19	17	7.0	3.0	2.6	2.8	3.4	3.6	39	11	4.7	7.4	6.[illegible]
20	16	7.0	3.0	2.6	2.8	3.4	3.6	29	9.4	4.9	7.4	[illegible]
21	16	7.0	2.8	2.6	2.8	3.4	3.6	23	8.0	22	7.4	6.3
22	15	6.0	2.8	2.6	2.8	3.4	3.6	24	6.9	27	7.4	6.1
23	15	6.0	2.8	2.6	2.8	3.4	3.6	41	6.6	16	9.1	6.1
24	14	6.0	2.8	2.6	2.8	3.4	3.6	59	6.3	10	11	5.8
25	14	6.0	2.8	2.6	2.8	3.4	3.6	66	5.6	9.4	13	5.8
26	14	6.0	2.8	2.6	3.0	3.4	3.6	32	6.3	18	21	5.6
27	13	6.0	2.8	2.6	3.0	3.4	3.6	35	11	17	14	5.3
28	13	5.0	2.8	2.6	3.0	3.4	4.0	31	7.1	12	12	5.3
29	13	5.0	2.8	2.6	3.0	3.4	5.0	21	6.6	10	10	5.3
30	13	5.0	2.8	2.6	---	3.4	6.0	29	10	10	9.4	7.1
31	13	---	2.8	2.6	---	3.4	---	26	---	9.4	9.1	---
TOTAL	539	261.0	104.8	81.6	79.0	101.8	109.4	767.0	351.8	278.7	299.0	203.2
MEAN	17.4	8.70	3.38	2.63	2.72	3.28	3.65	24.7	11.7	8.99	9.65	6.77
MAX	27	12	5.0	2.8	3.0	3.4	6.0	66	60	27	21	8.7
MIN	13	5.0	2.8	2.6	2.6	3.0	3.4	9.0	4.0	4.7	7.4	5.3
CFSM	1.89	.95	.37	.29	.30	.36	.40	2.69	1.27	.98	1.05	.74
IN.	2.18	1.06	.42	.33	.32	.41	.44	3.10	1.42	1.13	1.21	.82
AC-FT	1070	518	208	162	157	202	217	1520	698	553	593	403

CAL YR 1983 TOTAL 3596.8 MEAN 9.85 MAX 101 MIN 1.4 CFSM 1.07 IN 14.56 AC-FT 7130
WTR YR 1984 TOTAL 3176.3 MEAN 8.68 MAX 66 MIN 2.6 CFSM .95 IN 12.86 AC-FT 6300

15564875 MIDDLE FORK KOYUKUK RIVER NEAR WISEMAN

LOCATION.--Lat 67°26'18", long 150°06'30", in SE¼ sec.7, T.30 N., R.11 W., Hydrologic Unit 19030005, near midspan on downstream side of bridge on Dalton Highway, 1.4 mi upstream from Minnie Creek, 1.9 mi downstream from Hammond River, 2.1 mi north of Wiseman and 2.5 mi upstream from Wiseman Creek.

DRAINAGE AREA.--1,200 mi^2, approximately, revised.

PERIOD OF RECORD.--August 1970 to September 1978, October 1983 to September 1984.

GAGE.--Water-stage recorder. Datum of gage is 1,189.6 ft National Geodetic Vertical Datum of 1929 (Alyeska Pipeline Service Company, temporary bench mark). Prior to July 23, 1976, at site 0.3 mi upstream at same datum.

REMARKS.--Records estimated and poor for period of no gage-height record, Oct. 1 to May 30, fair otherwise. Winter low flow may be discontinuous as the flow probably varies significantly along the main stem of the river due to the formation of aufeis in the vicinity of springs. Flow may cease at other points.

AVERAGE DISCHARGE.--9 years (water years 1971-78 and 1984), 737 ft^3/s, 8.34 in/yr, 534,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 19,100 ft^3/s May 31, 1977, gage height, 10.66 ft, from rating curve extended above 8,200 ft^3/s on the basis of slope-area measurement at a gage height of 11.1 ft, from floodmarks; no flow Nov. 16, 1974 to Apr. 24, 1975.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 1968 reached a stage of 13.25 ft at prior site, from floodmarks, discharge, 16,300 ft^3/s from slope-area measurement. The maximum evident flood reached a stage of 15.2 ft at prior site, 11.1 ft, present site, from floodmarks, discharge, about 33,000 ft^3/s from slope-area measurement.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 13,000 ft^3/s Aug. 4, gage height, 9.71 ft, from rating curve extended above 8,200 ft^3/s on the basis of slope-area measurement at a gage height of 11.1 ft; minimum daily, about 1.0 ft^3/s Jan. 25 to Apr. 26.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	600	70	18	4.0	1.0	1.0	1.0	10	2880	1760	2540	1170
2	520	66	18	4.0	1.0	1.0	1.0	12	3560	1520	3300	1070
3	460	64	17	4.0	1.0	1.0	1.0	14	3700	1430	6340	970
4	410	60	16	3.0	1.0	1.0	1.0	17	4430	1460	8990	897
5	370	58	15	3.0	1.0	1.0	1.0	21	4640	1490	4590	830
6	350	54	15	3.0	1.0	1.0	1.0	27	4710	1330	4040	781
7	320	52	14	3.0	1.0	1.0	1.0	34	9540	1960	3070	741
8	290	50	13	3.0	1.0	1.0	1.0	45	8110	2320	2510	725
9	270	48	13	3.0	1.0	1.0	1.0	68	6070	2060	3130	683
10	250	46	13	3.0	1.0	1.0	1.0	98	5500	1670	3830	647
11	230	44	12	2.0	1.0	1.0	1.0	160	4890	1680	2870	616
12	210	42	11	2.0	1.0	1.0	1.0	280	4580	1900	2320	582
13	200	40	11	2.0	1.0	1.0	1.0	500	4460	1520	1980	558
14	190	38	11	2.0	1.0	1.0	1.0	900	3870	1280	1700	539
15	180	36	10	2.0	1.0	1.0	1.0	2000	3700	1110	1520	519
16	170	35	10	2.0	1.0	1.0	1.0	2800	4300	991	1400	505
17	160	34	9.0	2.0	1.0	1.0	1.0	3100	4820	923	1610	486
18	150	32	9.0	2.0	1.0	1.0	1.0	3000	4290	869	3940	470
19	140	31	9.0	2.0	1.0	1.0	1.0	2700	3950	1180	5330	460
20	130	30	8.0	2.0	1.0	1.0	1.0	2500	3470	1610	6750	440
21	120	28	8.0	2.0	1.0	1.0	1.0	2300	3300	3640	4320	430
22	120	27	7.0	2.0	1.0	1.0	1.0	2200	3560	2950	3480	420
23	110	26	7.0	2.0	1.0	1.0	1.0	2600	3370	2120	5630	410
24	110	25	7.0	2.0	1.0	1.0	1.0	2700	2580	1650	5710	400
25	100	24	6.0	1.0	1.0	1.0	1.0	2600	4000	1410	3860	390
26	94	23	6.0	1.0	1.0	1.0	1.0	2200	3270	1350	2870	380
27	90	22	6.0	1.0	1.0	1.0	3.0	2300	2380	1340	2250	370
28	86	21	5.0	1.0	1.0	1.0	5.0	2400	2200	1210	1970	360
29	82	20	5.0	1.0	1.0	1.0	7.0	2200	2150	1130	1640	350
30	78	19	5.0	1.0	---	1.0	9.0	2070	2030	1650	1440	350
31	74	---	4.0	1.0	---	1.0	---	2260	---	1780	1300	---
TOTAL	6664	1165	318.0	68.0	29.0	31.0	50.0	43916	124310	50293	106230	17549
MEAN	215	38.8	10.3	2.19	1.00	1.00	1.67	1417	4144	1622	3427	585
MAX	600	70	18	4.0	1.0	1.0	9.0	3100	9540	3640	8990	1170
MIN	74	19	4.0	1.0	1.0	1.0	1.0	10	2030	869	1300	350
CFSM	.18	.03	.009	.002	.001	.001	.001	1.18	3.45	1.35	2.86	.49
IN.	.21	.04	.01	.00	.00	.00	.00	1.36	3.85	1.56	3.29	.54
AC-FT	13220	2310	631	135	58	61	99	87110	246600	99760	210700	34810

WTR YR 1984 TOTAL 350623.0 MEAN 958 MAX 9540 MIN 1.0 CFSM .80 IN 10.87 AC-FT 695500

15565447 YUKON RIVER AT PILOT STATION

(National stream-quality accounting, and radiochemical networks station)

LOCATION.--Lat 61°56'04", long 162°52'50", in SW¼SE¼ sec.5, T.21 N., R.74 W., Hydrologic Unit 19030006, on right bank 0.2 mi downstream from village of Pilot Station, 2.4 mi downstream from Atchuelinguk River, and 19 mi upstream from AndreafskyRiver.

DRAINAGE AREA.--321,000 mi², approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1975 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 20 ft, from topographic map.

REMARKS.--Records good except those for period of no gage-height record, Nov. 4 to June 5, which are poor.

AVERAGE DISCHARGE.--9 years, 220,900 ft³/s, 9.34 in/yr, 160,000,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 751,000 ft³/s May 27 or 28, 1982, gage height, 28.6 ft, from floodmarks; maximum gage height, 30.2 ft about May 23, 1976, from floodmarks, backwater from ice; minimum daily discharge, about 35,000 ft³/s Feb. 23 to Mar. 27, 1984.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 642,000 ft³/s about June 2, gage height, 25.58 ft, from floodmarks; minimum daily, about 35,000 ft³/s Feb. 23 to Mar. 27.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	325000	201000	110000	69000	44000	35000	37000	47000	620000	496000	408000	395000
2	324000	202000	108000	68000	44000	35000	37000	47000	630000	492000	415000	394000
3	318000	201000	106000	67000	44000	35000	38000	48000	630000	485000	430000	395000
4	315000	198000	104000	66000	42000	35000	38000	49000	610000	475000	447000	395000
5	316000	190000	102000	65000	42000	35000	38000	50000	600000	467000	460000	393000
6	320000	185000	101000	64000	42000	35000	39000	54000	595000	461000	467000	391000
7	316000	180000	100000	63000	42000	35000	39000	65000	589000	455000	472000	388000
8	309000	177000	98000	62000	40000	35000	40000	75000	581000	450000	474000	384000
9	310000	174000	96000	62000	40000	35000	40000	100000	573000	446000	481000	381000
10	315000	170000	94000	60000	40000	35000	40000	130000	562000	441000	486000	376000
11	314000	165000	92000	60000	40000	35000	41000	180000	548000	439000	495000	368000
12	312000	160000	91000	58000	39000	35000	41000	240000	534000	436000	502000	362000
13	310000	157000	90000	58000	39000	35000	41000	280000	523000	435000	506000	353000
14	308000	155000	89000	56000	38000	35000	42000	310000	509000	435000	508000	346000
15	304000	153000	88000	56000	38000	35000	42000	340000	495000	436000	506000	341000
16	301000	150000	86000	56000	37000	35000	42000	370000	485000	435000	500000	331000
17	299000	147000	84000	54000	37000	35000	42000	400000	475000	434000	496000	323000
18	293000	143000	83000	54000	36000	35000	43000	420000	465000	430000	491000	317000
19	278000	140000	82000	54000	36000	35000	43000	450000	456000	425000	485000	313000
20	261000	138000	81000	52000	36000	35000	43000	470000	452000	422000	474000	308000
21	233000	135000	80000	52000	36000	35000	44000	490000	450000	418000	467000	303000
22	230000	132000	79000	52000	36000	35000	44000	520000	448000	416000	459000	296000
23	226000	130000	78000	50000	35000	35000	44000	540000	452000	414000	449000	289000
24	224000	128000	77000	50000	35000	35000	45000	560000	461000	411000	440000	284000
25	224000	125000	76000	50000	35000	35000	45000	560000	469000	410000	432000	280000
26	224000	122000	75000	48000	35000	35000	45000	580000	480000	410000	422000	275000
27	224000	120000	74000	48000	35000	35000	45000	580000	487000	409000	411000	269000
28	221000	118000	73000	48000	35000	36000	46000	600000	492000	406000	404000	262000
29	214000	115000	72000	46000	35000	36000	46000	600000	495000	406000	401000	258000
30	207000	112000	71000	46000	---	36000	46000	620000	496000	403000	397000	252000
31	203000	---	70000	46000	---	37000	---	620000	---	403000	395000	---
TOTAL	8578000	4623000	2710000	1740000	1113000	1090000	1256000	10395000	15662000	13502000	14180000	10022000
MEAN	276700	154100	87420	56130	38380	35160	41870	335300	522100	435500	457400	334100
MAX	325000	202000	110000	69000	44000	37000	46000	620000	630000	496000	508000	395000
MIN	203000	112000	70000	46000	35000	35000	37000	47000	448000	403000	395000	252000
CFSM	.86	.48	.27	.18	.12	.11	.13	1.05	1.63	1.36	1.43	1.04
IN.	.99	.54	.31	.20	.13	.13	.15	1.20	1.82	1.56	1.64	1.16
AC-FT	17010000	9170000	5375000	3451000	2208000	2162000	2491000	20620000	31070000	26780000	28130000	19880000

CAL YR 1983 TOTAL 78602000 MEAN 215300 MAX 552000 MIN 45000 CFSM .67 IN 9.11 AC-FT 155900000
WTR YR 1984 TOTAL 84871000 MEAN 231900 MAX 630000 MIN 35000 CFSM .72 IN 9.84 AC-FT 168300000

YUKON ALASKA

15565447 YUKON RIVER AT PILOT STATION--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1954-56, 1975 to current year.

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK) (00009)	SPE- CIFIC CON- DUCT- ANCE (UMHOS) (00095)	PH (STAND- ARD UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)
MAR								
20...	1755	1200	313	7.1	.0	758	--	--
20...	1756	1600	316	7.1	.0	758	--	--
20...	1757	1900	313	7.0	.0	758	--	--
JUN								
05...	2010	1150	124	6.9	11.0	751	9.1	83
05...	2011	1600	122	6.7	11.0	751	8.9	82
05...	2012	1850	123	6.6	11.0	751	9.2	84
05...	2013	2150	121	6.7	11.0	751	9.2	84
05...	2014	2450	123	6.7	11.0	751	8.9	82
JUL								
11...	1720	720	164	7.7	--	--	9.6	--
11...	1721	1370	163	7.7	--	--	9.6	--
11...	1722	1720	162	7.8	--	--	9.6	--
11...	1723	2070	163	7.7	--	--	9.6	--
11...	1724	2320	160	7.6	--	--	9.4	--
SEP								
20...	1125	1050	203	7.6	8.0	769	10.0	83
20...	1126	1750	201	7.6	8.0	769	10.1	84
20...	1127	2050	203	7.6	7.5	769	10.4	86

DATE	TIME	STREAM WIDTH (FT) (00004)	STREAM- FLOW, INSTAN- TANEOUS (CFS) (00061)	SPE- CIFIC CON- DUCT- ANCE (UMHOS) (00095)	PH (STAND- ARD UNITS) (00400)	TUR- BID- ITY (NTU) (00076)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREP- TOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)	HARD- NESS (MG/L AS CACO3) (00900)	HARD- NESS, NONCAR- BONATE (MG/L CACO3) (00902)
MAR										
20...	1800	2200	43000	--	--	5.2	--	--	170	20
20...	1900	2200	43000	--	--	5.3	<1	<1	170	12
JUN										
05...	2015	2690	548000	--	--	85	K3	<1	72	15
JUL										
11...	1730	2520	485000	170	7.7	150	K5	K3	95	22
SEP										
20...	1130	2430	304000	209	--	60	<1	<1	110	27

DATE	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	ALKA- LINITY LAB (MG/L AS CACO3) (90410)	ALKA- LINITY, CARBON- ATE IT-FLD (MG/L - CACO3) (99430)	BICAR- BONATE IT-FLD (MG/L AS HCO3) (99440)	CAR- BONATE IT-FLD (MG/L AS CO3) (99445)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)
MAR										
20...	49	11	3.7	1.5	157	148	181	.000	21	1.3
20...	48	11	3.7	1.5	157	153	187	.000	22	1.2
JUN										
05...	22	4.1	1.3	1.1	57	--	--	--	13	1.0
JUL										
11...	28	6.0	2.1	1.0	70	73	89	.000	23	.90
SEP										
20...	31	7.3	2.7	1.4	90	80	98	--	25	1.1

K NON-IDEAL COLONY COUNT

15565447 YUKON RIVER AT PILOT STATION--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	PHOSPHORUS, DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P) (00671)
MAR 20...	.10	13	--	190	.20	.110	.60	.020	<.010	.020
20...	.10	13	185	190	.22	.120	.20	.010	<.010	.040
JUN 05...	<.10	3.9	106	81	<.10	.020	.80	.400	.020	.020
JUL 11...	.10	6.0	107	110	<.10	.010	.60	.260	.010	.020
SEP 20...	.10	6.9	133	120	<.10	.040	.40	.140	.010	.020

DATE	TIME	ALUMINUM, DISSOLVED (UG/L AS AL) (01106)	ARSENIC DISSOLVED (UG/L AS AS) (01000)	BARIUM, DISSOLVED (UG/L AS BA) (01005)	BERYLLIUM, DISSOLVED (UG/L AS BE) (01010)	CADMIUM DISSOLVED (UG/L AS CD) (01025)	CHROMIUM, DISSOLVED (UG/L AS CR) (01030)	COBALT, DISSOLVED (UG/L AS CO) (01035)	COPPER, DISSOLVED (UG/L AS CU) (01040)	IRON, DISSOLVED (UG/L AS FE) (01046)	LEAD, DISSOLVED (UG/L AS PB) (01049)
MAR 20...	1800	<10	<1	94	<.5	<1	<1	<3	<1	29	2
20...	1900	<10	<1	93	<.5	<1	<1	<3	<1	56	2
JUN 05...	2015	50	<1	44	<1	1	<1	<3	11	310	4
JUL 11...	1730	70	<1	49	<1	1	<1	<3	6	190	<1
SEP 20...	1130	30	<1	49	<1	<1	<1	<3	6	150	6

DATE	LITHIUM DISSOLVED (UG/L AS LI) (01130)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	MERCURY DISSOLVED (UG/L AS HG) (71890)	MOLYBDENUM, DISSOLVED (UG/L AS MO) (01060)	NICKEL, DISSOLVED (UG/L AS NI) (01065)	SELENIUM, DISSOLVED (UG/L AS SE) (01145)	SILVER, DISSOLVED (UG/L AS AG) (01075)	STRONTIUM, DISSOLVED (UG/L AS SR) (01080)	VANADIUM, DISSOLVED (UG/L AS V) (01085)	ZINC, DISSOLVED (UG/L AS ZN) (01090)
MAR 20...	5	170	.4	<10	<1	<1	<1	200	<6	16
20...	6	160	.9	<10	3	<1	<1	200	<6	14
JUN 05...	<4	30	.2	<10	3	1	<1	85	<6	9
JUL 11...	6	8	<.1	<10	<1	<1	<1	100	<6	82
SEP 20...	7	6	--	<10	1	<1	<1	120	<6	17

DATE	TIME	GROSS ALPHA, DISSOLVED (UG/L AS U-NAT) (80030)	GROSS ALPHA, SUSP. TOTAL (UG/L AS U-NAT) (80040)	GROSS BETA, DISSOLVED (PCI/L AS CS-137) (03515)	GROSS BETA, SUSP. TOTAL (PCI/L AS CS-137) (03516)	GROSS BETA, DISSOLVED (PCI/L AS SR/YT-90) (80050)	GROSS BETA, SUSP. TOTAL (PCI/L AS SR/YT-90) (80060)	RADIUM 226, DISSOLVED, RADON METHOD (PCI/L) (09511)	URANIUM DISSOLVED, EXTRACTION (UG/L) (80020)	TRITIUM IN WATER MOLECULES (TU) (07012)	TRITIUM WATER MOLECULES COUNT ERROR (TU) (07013)	URANIUM NATURAL DISSOLVED (UG/L AS U) (22703)
MAR 20...	1900	<3.7	<.4	2.8	<.4	2.4	<.4	.07	--	60.4	2.2	1.3
JUN 05...	2015	<2.6	12	1.8	11	1.6	9.1	.06	.35	33.7	1.4	--

15565447 YUKON RIVER AT PILOT STATION--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
MAR					
20...	1800	43000	9	1040	--
JUL					
11...	1730	485000	300	393000	69
SEP					
20...	1125	--	207	--	85
20...	1126	--	172	--	92
20...	1127	--	161	--	95
20...	1130	304000	180	148000	90

15621000 SNAKE RIVER NEAR NOME

LOCATION.--Lat 64°33'51", long 165°30'26", in NW¼SE¼ sec.5, T.11 S., R.34 W., Hydrologic Unit 19020002, on downstream side of bridge on Nome-Teller Highway, 5.4 mi northwest of Nome.

DRAINAGE AREA.--85.7 mi^2, approximately.

PERIOD OF RECORD.--September 1965 to September 1981, October 1981 to September 1982 (discharge measurements and fragmentary gage-height record), October 1982 to current year.

GAGE.--Nonrecording gage and crest-stage gage. Datum of gage is 8.58 ft National Geodetic Vertical Datum of 1929 (USC&GS data furnished by Alaska Department of Transportation, Nome). Apr. 25, 1968 to July 11, 1979, water-stage recorder at same site and datum.

REMARKS.--Records good except those for Oct. 19 to May 19, which are poor

AVERAGE DISCHARGE.--18 years (water-years 1966-81, 1983-84), 184 ft^3/s, 29.16 in/yr, 133,300 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,200 ft^3/s June 2, 1966, gage height, 11.90 ft; maximum gage height, 13.59 ft May 15, 1975, backwater from ice; minimum daily discharge, about 1.0 ft^3/s Feb. 25 to May 15, 1971, but may be no flow at times during some winters.

EXTREMES FOR CURRENT YEAR.--Maximum gage height observed, 12.32 ft May 19, ice jam, discharge not determined; minimum daily, about 29 ft^3/s Apr. 22 to May 8.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	358	140	38	32	32	32	32	29	586	147	541	246
2	367	130	38	32	32	32	32	29	737	122	850	231
3	345	130	36	32	32	32	32	29	920	120	545	220
4	438	120	36	32	32	32	32	29	1040	134	432	207
5	427	110	35	32	32	32	32	29	892	176	403	202
6	365	110	35	32	32	32	32	29	682	369	361	197
7	366	100	34	32	32	32	32	29	526	265	349	195
8	464	96	34	32	32	32	32	29	499	221	349	186
9	684	90	34	32	32	32	31	30	430	187	307	182
10	740	86	33	32	32	32	31	34	440	162	289	170
11	762	82	33	32	32	32	31	42	377	143	269	163
12	662	78	33	32	32	32	31	52	409	132	243	164
13	581	74	32	32	32	32	31	70	396	125	237	159
14	530	70	32	32	32	32	31	100	344	114	227	156
15	493	66	32	32	32	32	30	250	329	108	307	150
16	467	64	32	32	32	32	30	400	307	102	613	152
17	432	60	32	32	32	32	30	800	278	99	909	173
18	392	58	32	32	32	32	30	1500	265	101	588	187
19	370	56	32	32	32	32	30	3400	233	111	524	175
20	340	54	32	32	32	32	30	3200	216	115	463	180
21	310	52	32	32	32	32	30	2620	236	108	436	169
22	290	50	32	32	32	32	29	1910	274	107	454	157
23	270	48	32	32	32	32	29	1390	258	98	397	168
24	250	46	32	32	32	32	29	775	235	97	374	180
25	230	46	32	32	32	32	29	577	213	98	333	166
26	220	44	32	32	32	32	29	388	180	95	309	161
27	200	42	32	32	32	32	29	289	169	114	299	158
28	190	40	32	32	32	32	29	233	163	136	272	156
29	170	40	32	32	32	32	29	282	155	142	259	159
30	160	40	32	32	---	32	29	279	149	161	252	155
31	150	---	32	32	---	32	---	429	---	982	244	---
TOTAL	12023	2222	1027	992	928	992	913	19282	11938	5191	12435	5324
MEAN	388	74.1	33.1	32.0	32.0	32.0	30.4	622	398	167	401	177
MAX	762	140	38	32	32	32	32	3400	1040	982	909	246
MIN	150	40	32	32	32	32	29	29	149	95	227	150
CFSM	4.53	.87	.39	.37	.37	.37	.36	7.26	4.64	1.95	4.68	2.07
IN.	5.22	.96	.45	.43	.40	.43	.40	8.37	5.18	2.25	5.40	2.31
AC-FT	23850	4410	2040	1970	1840	1970	1810	38250	23680	10300	24660	10560

CAL YR 1983 TOTAL 68106 MEAN 187 MAX 3200 MIN 20 CFSM 2.18 IN 29.56 AC-FT 135100
WTR YR 1984 TOTAL 73267 MEAN 200 MAX 3400 MIN 29 CFSM 2.33 IN 31.80 AC-FT 145300

NOTE.--No gage-height record Oct. 19 to May 16.

15668200 CRATER CREEK NEAR NOME

LOCATION.--Lat 64°55'48", long 164°52'12", in NW¼NW¼ sec.36, T.6 S., R.31 W., Hydrologic Unit 19020002, on right bank 500 ft downstream from bridge at mi 43 on Nome-Taylor Highway, 1.0 mi upstream from mouth, and 34 mi northeast of Nome. Prior to June 13, 1984, at site 500 ft upstream.

DRAINAGE AREA.--21.9 mi^2.

PERIOD OF RECORD.--Annual maximum, water years 1964-65, 1967-75. August 1975 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 470 ft, from topographic map. Sept. 18, 1964 to Aug. 29, 1975, crest-stage gage and Aug. 30, 1975 to June 12, 1984, water-stage recorder at site 500 ft upstream at datum 5.00 ft higher (used as supplementary gage June 13 to Sept. 30, 1984.)

REMARKS.--Records good except those for periods of no gage height record, Oct. 2 to June 12, which are poor. Several observations of water temperature were made during the year.

AVERAGE DISCHARGE.--9 years, 53.7 ft^3/s, 33.30 in/yr, 38,910 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,540 ft^3/s July 10, 1975, gage height, 19.71 ft, from floodmarks at site and datum then in use, from slope-area measurement of peak flow; no flow for several weeks of most winters.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 550 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
July 30	2330	*875	*3.09	Aug. 1	1930	791	3.03

No flow Jan. 15 to May 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	155	27	6.7	1.5	.00	.00	.00	.00	100	115	323	53
2	130	25	6.4	1.5	.00	.00	.00	.00	150	107	309	57
3	100	23	6.2	1.5	.00	.00	.00	.00	230	95	172	57
4	140	21	6.0	1.5	.00	.00	.00	.00	350	99	139	55
5	130	20	5.8	1.5	.00	.00	.00	.00	340	85	108	52
6	120	19	5.6	1.0	.00	.00	.00	.00	330	141	88	48
7	110	18	5.4	1.0	.00	.00	.00	.00	300	90	79	47
8	150	17	5.2	1.0	.00	.00	.00	.00	250	63	74	45
9	200	16	5.0	1.0	.00	.00	.00	.00	200	50	64	41
10	220	16	4.8	1.0	.00	.00	.00	.00	170	44	58	40
11	210	15	4.6	.50	.00	.00	.00	.50	150	44	55	39
12	200	14	4.4	.50	.00	.00	.00	.50	135	48	51	40
13	170	14	4.2	.50	.00	.00	.00	.50	129	50	48	39
14	140	13	4.0	.50	.00	.00	.00	1.0	132	51	48	38
15	120	12	3.8	.00	.00	.00	.00	1.0	145	50	48	36
16	110	12	3.6	.00	.00	.00	.00	1.5	138	46	112	35
17	100	11	3.4	.00	.00	.00	.00	2.0	204	46	183	41
18	92	11	3.2	.00	.00	.00	.00	3.0	255	45	103	44
19	84	10	3.0	.00	.00	.00	.00	6.0	276	47	87	40
20	76	10	2.8	.00	.00	.00	.00	10	239	46	78	39
21	70	9.8	2.6	.00	.00	.00	.00	14	233	42	71	39
22	65	9.6	2.5	.00	.00	.00	.00	19	169	39	104	39
23	60	9.4	2.4	.00	.00	.00	.00	26	208	37	91	38
24	55	9.2	2.3	.00	.00	.00	.00	37	215	39	89	46
25	50	9.0	2.2	.00	.00	.00	.00	50	258	40	86	46
26	45	8.6	2.1	.00	.00	.00	.00	52	248	37	75	43
27	42	8.2	2.1	.00	.00	.00	.00	54	185	35	71	40
28	38	7.8	2.0	.00	.00	.00	.00	55	107	46	67	39
29	35	7.4	2.0	.00	.00	.00	.00	57	106	51	63	39
30	32	7.0	1.5	.00	---	.00	.00	59	106	131	56	40
31	30	---	1.5	.00	---	.00	---	60	---	391	54	---
TOTAL	3279	410.0	117.3	14.50	.00	.00	.00	509.00	6058	2250	3054	1295
MEAN	106	13.7	3.78	.47	.000	.000	.000	16.4	202	72.6	98.5	43.2
MAX	220	27	6.7	1.5	.00	.00	.00	60	350	391	323	57
MIN	30	7.0	1.5	.00	.00	.00	.00	.00	100	35	48	35
CFSM	4.84	.63	.17	.02	.000	.000	.000	.75	9.22	3.32	4.50	1.97
IN.	5.57	.70	.20	.02	.00	.00	.00	.86	10.29	3.82	5.19	2.20
AC-FT	6500	813	233	29	.00	.00	.00	1010	12020	4460	6060	2570

CAL YR 1983 TOTAL 19489.80 MEAN 53.4 MAX 571 MIN .00 CFSM 2.44 IN 33.10 AC-FT 38660
WTR YR 1984 TOTAL 16986.80 MEAN 46.4 MAX 391 MIN .00 CFSM 2.12 IN 28.85 AC-FT 33690

15744500 KOBUK RIVER NEAR KIANA

LOCATION.--Lat 66°58'25", long 160°07'51", in N¼SE¼ sec.11, T.18 N., R.7 W., Hydrologic Unit 19020001, on left bank 5.8 mi upstream from Portage Creek, 9.7 mi upstream from Squirrel River, and 9.8 mi upstream from Kiana.

DRAINAGE AREA.--9,520 mi², approximately.

PERIOD OF RECORD.--September 1976 to current year.

REVISED RECORDS.--WDR AK-81-1: 1977 (M), 1978, 1979-80 (M).

GAGE.--Water-stage recorder. Altitude of gage is 35 ft, from topographic map.

REMARKS.--Records estimated and poor for period of no gage-height record prior to June 20, fair thereafter.

AVERAGE DISCHARGE.--8 years, 14,970 ft³/s, 21.35 in/yr, 10,850,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 152,000 ft³/s June 7, 1982, gage height, 59.46 ft, from floodmarks, from rating curve extended above 70,000 ft³/s; minimum daily, about 1,000 ft³/s Apr. 1 to May 14, 1984.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 80,700 ft³/s Aug. 5, gage height, 52.97 ft; minimum daily, about 1,000 ft³/s Apr. 1 to May 14.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16000	5200	3100	2100	1500	1200	1000	1000	42000	20800	36600	33300
2	15000	5000	3000	2100	1500	1200	1000	1000	41000	21600	43500	30500
3	14000	5000	3000	2100	1500	1200	1000	1000	39000	22400	55100	28600
4	13000	4800	2900	2100	1400	1200	1000	1000	39000	20600	74200	26600
5	13000	4800	2900	2000	1400	1200	1000	1000	39000	18300	80200	24800
6	12000	4700	2900	2000	1400	1100	1000	1000	40000	16800	76900	23200
7	12000	4600	2800	2000	1400	1100	1000	1000	42000	17000	72200	22100
8	11000	4500	2800	2000	1400	1100	1000	1000	45000	19900	63600	20800
9	11000	4400	2800	1900	1400	1100	1000	1000	49000	24100	54500	20000
10	10000	4300	2700	1900	1400	1100	1000	1000	54000	29000	48000	19400
11	9800	4200	2700	1900	1400	1100	1000	1000	60000	29900	42900	18600
12	9400	4200	2700	1900	1400	1100	1000	1000	54000	26700	38500	18000
13	9000	4100	2600	1800	1300	1100	1000	1000	47000	22600	34600	17100
14	8800	4000	2600	1800	1300	1100	1000	1000	42000	19400	31300	16500
15	8400	3900	2600	1800	1300	1100	1000	1100	37000	17300	28400	15900
16	8200	3900	2600	1800	1300	1100	1000	1100	33000	15800	26800	15600
17	8000	3800	2500	1800	1300	1100	1000	1300	30000	14600	31600	15000
18	7600	3800	2500	1700	1300	1100	1000	1500	29000	13800	56600	14900
19	7400	3700	2500	1700	1300	1100	1000	1700	29000	13600	70600	15000
20	7200	3600	2400	1700	1300	1100	1000	2000	30000	14000	71200	15100
21	7000	3600	2400	1700	1300	1100	1000	2400	31300	15500	67000	15000
22	6800	3500	2400	1700	1300	1100	1000	2900	29800	18300	60800	15000
23	6600	3500	2300	1700	1300	1100	1000	3500	27700	20800	58900	15100
24	6400	3400	2300	1600	1200	1100	1000	4600	25700	21400	61200	14500
25	6200	3400	2300	1600	1200	1100	1000	6000	24100	20800	61800	14000
26	6000	3300	2300	1600	1200	1100	1000	9000	22700	19600	63000	13800
27	5800	3300	2200	1600	1200	1100	1000	13000	21000	18100	61100	13600
28	5800	3200	2200	1500	1200	1100	1000	22000	20000	17000	54600	13400
29	5600	3200	2200	1500	1200	1100	1000	40000	20200	16800	47400	13000
30	5400	3100	2200	1500	---	1100	1000	42000	20600	18800	41400	13000
31	5400	---	2200	1500	---	1100	---	43000	---	21200	36600	---
TOTAL	277800	120000	79600	55600	38600	34600	30000	211100	1064100	606500	1651300	551400
MEAN	8961	4000	2568	1794	1331	1116	1000	6810	35470	19560	53270	18380
MAX	16000	5200	3100	2100	1500	1200	1000	43000	60000	29900	80200	33300
MIN	5400	3100	2200	1500	1200	1100	1000	1000	20000	13600	26800	13000
CFSM	.94	.42	.27	[illegible]	.14	.12	.11	.72	3.73	2.06	5.60	1.93
IN.	1.09	.47	.31	[illegible]	.15	.14	.12	.82	4.16	2.37	6.45	2.15
AC-FT	551000	238000	157900	110300	76560	68630	59500	418700	2111000	1203000	3275000	1094000

CAL YR 1983 TOTAL 4546680 MEAN 12460 MAX 80100 MIN 2000 CFSM 1.31 IN 17.77 AC-FT 9018000
WTR YR 1984 TOTAL 4720600 MEAN 12900 MAX 80200 MIN 1000 CFSM 1.36 IN 18.45 AC-FT 9363000

ARCTIC SLOPE ALASKA

15798700 NUNAVAK CREEK NEAR BARROW

LOCATION.--Lat 71°15'35", long 156°46'57", in SE¼ sec. 18, T. 22 N., R. 18 W., North Slope Borough, Hydrologic Unit 19010003, 0.7 mi downstream from Emaiksoun Lake, 1.2 mi upstream from Nunavak Bay, and 2.[illegible] mi south of Barrow Post Office.

DRAINAGE AREA.--2.79 mi^2, approximately.

PERIOD OF RECORD.--October 1971 to current year.

REVISED RECORDS.--WDR AK-76-1: 1972.

GAGE.--Water-stage recorder. Altitude of gage is 19 ft, from topographic map. Prior to May 29, 1982 at site 10 ft downstream at datum about 29.6 ft higher.

REMARKS.--Records poor. No gage-height record prior to June 11. Several observations of water temerature were made during the year.

AVERAGE DISCHARGE.--13 years, 0.84 ft^3/s, 4.09 in/yr, 609 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 131 ft^3/s June 10, 1980, gage height, 4.86 ft at site and datum then in use, flow over snow; no flow during all winter months and at times during summer months.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 66 ft^3/s June 12, gage height 33.75 ft, from graph based on gage readings; no flow prior to May 20 and after Sept. 10.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	.00	.07	.54	.32	.20
2	.00	.00	.00	.00	.00	.00	.00	.00	.09	.44	.35	.20
3	.00	.00	.00	.00	.00	.00	.00	.00	.12	.35	.26	.20
4	.00	.00	.00	.00	.00	.00	.00	.00	.19	.26	.38	.10
5	.00	.00	.00	.00	.00	.00	.00	.00	.25	.29	.26	.10
6	.00	.00	.00	.00	.00	.00	.00	.00	.40	.41	.54	.10
7	.00	.00	.00	.00	.00	.00	.00	.00	.65	.51	.21	.10
8	.00	.00	.00	.00	.00	.00	.00	.00	1.0	.51	.35	.10
9	.00	.00	.00	.00	.00	.00	.00	.00	2.0	.54	.58	.10
10	.00	.00	.00	.00	.00	.00	.00	.00	4.5	.47	.41	.10
11	.00	.00	.00	.00	.00	.00	.00	.00	10	.38	.26	.00
12	.00	.00	.00	.00	.00	.00	.00	.00	30	.29	.14	.00
13	.00	.00	.00	.00	.00	.00	.00	.00	46	.24	.09	.00
14	.00	.00	.00	.00	.00	.00	.00	.00	36	.16	.10	.00
15	.00	.00	.00	.00	.00	.00	.00	.00	35	.12	.12	.00
16	.00	.00	.00	.00	.00	.00	.00	.00	30	.10	.10	.00
17	.00	.00	.00	.00	.00	.00	.00	.00	21	.07	.58	.00
18	.00	.00	.00	.00	.00	.00	.00	.00	10	.16	.74	.00
19	.00	.00	.00	.00	.00	.00	.00	.00	5.6	.18	3.4	.00
20	.00	.00	.00	.00	.00	.00	.00	.01	3.0	.18	2.1	.00
21	.00	.00	.00	.00	.00	.00	.00	.01	3.0	.16	.88	.00
22	.00	.00	.00	.00	.00	.00	.00	.01	2.4	.14	.58	.00
23	.00	.00	.00	.00	.00	.00	.00	.02	1.9	.12	.50	.00
24	.00	.00	.00	.00	.00	.00	.00	.02	1.5	.12	.60	.00
25	.00	.00	.00	.00	.00	.00	.00	.02	1.2	.26	1.5	.00
26	.00	.00	.00	.00	.00	.00	.00	.02	.98	.41	.90	.00
27	.00	.00	.00	.00	.00	.00	.00	.03	.83	.35	.60	.00
28	.00	.00	.00	.00	.00	.00	.00	.03	.74	.26	.40	.00
29	.00	.00	.00	.00	.00	.00	.00	.04	.66	.66	.30	.00
30	.00	.00	.00	.00	---	.00	.00	.04	.58	.62	.20	.00
31	.00	---	.00	.00	---	.00	---	.05	---	.41	.20	---
TOTAL	.00	.00	.00	.00	.00	.00	.00	.30	249.66	9.71	17.95	1.30
MEAN	.000	.000	.000	.000	.000	.000	.000	.010	8.32	.31	.58	.043
MAX	.00	.00	.00	.00	.00	.00	.00	.05	46	.66	3.4	.20
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.07	.07	.09	.00
CFSM	.000	.000	.000	.000	.000	.000	.000	.004	2.98	.11	.21	.02
IN.	.00	.00	.00	.00	.00	.00	.00	.00	3.33	.13	.24	.02
AC-FT	.00	.00	.00	.00	.00	.00	.00	.6	495	19	36	2.6

CAL YR 1983 TOTAL 94.38 MEAN .26 MAX 10 MIN .00 CFSM .09 IN 1.26 AC-FT 187
WTR YR 1984 TOTAL 278.92 MEAN .76 MAX 46 MIN .00 CFSM .27 IN 3.72 AC-FT 553

15896000 KUPARUK RIVER NEAR DEADHORSE
(National stream-quality accounting network station)

LOCATION.--Lat 70°16'54", long 148°57'35", in NE¼ sec.25, T.11 N., R.12 E., North Slope Borough, Hydrologic Unit 19010001, near right bank, 1.8 mi northeast of SE Eileen State No. 1, 2.1 mi south of Arctic Slope/Alaska General Camp, 10 mi upstream from mouth on Gwyder Bay, and 13 mi northwest of Deadhorse.

DRAINAGE AREA.--3,130 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1971 to current year.

GAGE.--Water-stage recorder. Datum of gage is at National Geodetic Vertical Datum of 1929 (levels by private engineering firm).

REMARKS.--Records poor. Winter low flow may be discontinuous as the flow probably varies significantly along the main stem of the river due to the formation of aufeis in the vicinity of springs. Flow may cease at other points.

AVERAGE DISCHARGE.--13 years, 1,372 ft³/s, 5.95 in/yr, 994,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 118,000 ft³/s June 7, 1978, gage height, 37.6 ft, from rangeline on recorder chart; no flow at times during winter periods.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 56,800 ft³/s June 11, gage height 34.85 ft; no flow Oct. 29 to May 27

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	230	.00	.00	.00	.00	.00	.00	.00	1000	957	2120	2700
2	190	.00	.00	.00	.00	.00	.00	.00	1500	891	2080	2400
3	160	.00	.00	.00	.00	.00	.00	.00	2000	830	2100	2200
4	140	.00	.00	.00	.00	.00	.00	.00	2500	820	2200	2000
5	130	.00	.00	.00	.00	.00	.00	.00	3000	810	4100	1800
6	110	.00	.00	.00	.00	.00	.00	.00	5200	800	9000	1600
7	90	.00	.00	.00	.00	.00	.00	.00	9000	780	7300	1400
8	80	.00	.00	.00	.00	.00	.00	.00	14000	762	5000	1300
9	70	.00	.00	.00	.00	.00	.00	.00	31800	744	3800	1200
10	60	.00	.00	.00	.00	.00	.00	.00	39600	753	3350	1100
11	55	.00	.00	.00	.00	.00	.00	.00	53900	762	7000	1000
12	50	.00	.00	.00	.00	.00	.00	.00	49000	913	8600	950
13	45	.00	.00	.00	.00	.00	.00	.00	27700	1680	6750	900
14	42	.00	.00	.00	.00	.00	.00	.00	17100	1780	4880	850
15	40	.00	.00	.00	.00	.00	.00	.00	11600	1600	3830	800
16	37	.00	.00	.00	.00	.00	.00	.00	8000	1350	3170	750
17	35	.00	.00	.00	.00	.00	.00	.00	5280	1190	2870	700
18	33	.00	.00	.00	.00	.00	.00	.00	3920	1070	3140	650
19	31	.00	.00	.00	.00	.00	.00	.00	3230	968	3530	620
20	29	.00	.00	.00	.00	.00	.00	.00	2660	902	3770	600
21	27	.00	.00	.00	.00	.00	.00	.00	2320	840	4340	580
22	25	.00	.00	.00	.00	.00	.00	.00	2020	968	4720	520
23	23	.00	.00	.00	.00	.00	.00	.00	1770	1560	4760	480
24	22	.00	.00	.00	.00	.00	.00	.00	1600	1650	7000	450
25	20	.00	.00	.00	.00	.00	.00	.00	1480	1520	9400	410
26	18	.00	.00	.00	.00	.00	.00	.00	1410	1330	6400	380
27	15	.00	.00	.00	.00	.00	.00	.00	1310	1210	5400	350
28	10	.00	.00	.00	.00	.00	.00	30	1190	1350	4600	330
29	.00	.00	.00	.00	.00	.00	.00	100	1100	2480	4000	320
30	.00	.00	.00	.00	---	.00	.00	200	1030	2840	3500	300
31	.00	---	.00	.00	---	.00	---	500	---	2340	3000	---
TOTAL	1817.00	.00	.00	.00	.00	.00	.00	830.00	307220	38450	145710	29640
MEAN	58.6	.000	.000	.000	.000	.000	.000	26.8	10240	1240	4700	988
MAX	230	.00	.00	.00	.00	.00	.00	500	53900	2840	9400	2700
MIN	.00	.00	.00	.00	.00	.00	.00	.00	1000	744	2080	300
CFSM	.02	.000	.000	.000	.000	.000	.000	.009	3.27	.40	1.50	.32
IN.	.02	.00	.00	.00	.00	.00	.00	.01	3.65	.46	1.73	.35
AC-FT	3600	.00	.00	.00	.00	.00	.00	1650	609400	76270	289000	58790

CAL YR 1983 TOTAL 380984.00 MEAN 1044 MAX 62800 MIN .00 CFSM .33 IN 4.53 AC-FT 755700
WTR YR 1984 TOTAL 523667.00 MEAN 1431 MAX 53900 MIN .00 CFSM .46 IN 6.22 AC-FT 1039000

NOTE.--No gage-height record Oct. 1 to May 28 and Aug. 25 to Sept. 30.

BEST COPY AVAILABLE

15896000 KUPARUK RIVER NEAR DEADHORSE--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1970-72, 1974 to current year

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS) (00061)	SPECIFIC CONDUCTANCE (UMHOS) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE, AIR (DEG C) (00020)	TEMPERATURE (DEG C) (00010)	TURBIDITY (NTU) (00076)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	COLIFORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	STREPTOCOCCI FECAL, KF AGAR (COLS. PER 100 ML) (31673)
JUN 17...	1430	5660	90	6.6	8.0	11.0	1.6	775	10.8	96	K0	K0
AUG 07...	1730	6580	65	6.3	16.0	10.5	5.3	762	10.9	98	54	K4
SEP 18...	1320	666	138	8.0	8.0	3.5	1.1	765	13.6	102	K55	K22

DATE	HARDNESS (MG/L AS CACO3) (00900)	HARDNESS, NONCARBONATE (MG/L CACO3) (00902)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	BICARBONATE IT-FLD (MG/L AS HCO3) (99440)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)
JUN 17...	49	0	17	1.6	1.3	.60	50	5.5	1.6	<.10	1.5
AUG 07...	33	10	11	1.4	1.4	.40	35	7.1	.70	<.10	3.0
SEP 18...	69	15	24	2.3	1.5	.40	80	5.3	1.8	<.10	1.8

DATE	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	PHOSPHORUS, DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P) (00671)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
JUN 17...	57	110	<.10	.020	.50	.030	.030	.030	21	321	89
AUG 07...	50	40	<.10	.020	.50	.020	.020	.010	25	444	96
SEP 18...	90	70	<.10	.030	.60	.010	.010	.020	18	32	95

DATE	TIME	ALUMINUM, DISSOLVED (UG/L AS AL) (01106)	ARSENIC DISSOLVED (UG/L AS AS) (01000)	BARIUM, DISSOLVED (UG/L AS BA) (01005)	BERYLLIUM, DISSOLVED (UG/L AS BE) (01010)	CADMIUM DISSOLVED (UG/L AS CD) (01025)	CHROMIUM, DISSOLVED (UG/L AS CR) (01030)	COBALT, DISSOLVED (UG/L AS CO) (01035)	COPPER, DISSOLVED (UG/L AS CU) (01040)	IRON, DISSOLVED (UG/L AS FE) (01046)	LEAD, DISSOLVED (UG/L AS PB) (01049)
JUN 17...	1430	<10	<1	26	1	<1	<1	<3	10	94	<1
AUG 07...	1730	30	<1	23	<1	<1	4	<3	7	99	3
SEP 18...	1320	<10	<1	39	<1	<1	20	<3	9	31	2

DATE	LITHIUM DISSOLVED (UG/L AS LI) (01130)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	MERCURY DISSOLVED (UG/L AS HG) (71890)	MOLYBDENUM, DISSOLVED (UG/L AS MO) (01060)	NICKEL, DISSOLVED (UG/L AS NI) (01065)	SELENIUM, DISSOLVED (UG/L AS SE) (01145)	SILVER, DISSOLVED (UG/L AS AG) (01075)	STRONTIUM, DISSOLVED (UG/L AS SR) (01080)	VANADIUM, DISSOLVED (UG/L AS V) (01085)	ZINC, DISSOLVED (UG/L AS ZN) (01090)
JUN 17...	<4	12	.3	<10	2	<1	<1	32	<6	32
AUG 07...	<4	7	.1	<10	4	<1	1	22	<6	10
SEP 18...	5	4	<.1	<10	6	<1	<1	46	<6	17

K NON-IDEAL COLONY COUNT

15896700 PUTULIGAYUK RIVER NEAR DEADHORSE

LOCATION.--Lat 70°16'03", long 148°37'41", in NE¼ sec.32, T.11 N., R.14 E., North Slope Borough, Hydrologic Unit 19010001, at midchannel 200 ft upstream from culvert causeway, 0.2 mi downstream from unnamed tributary, 6.2 mi northwest of Deadhorse, and 7.3 mi upstream from mouth on Prudhoe Bay.

DRAINAGE AREA.--176 mi^2, approximately.

PERIOD OF RECORD.--May 1970 to September 1979 and October 1981 to current year.

GAGE.--Water-stage recorder. Datum of gage is at National Geodetic Vertical Datum of 1929 (levels by private engineering firm). Prior to June 4, 1972, on right bank 150 ft downstream at same datum.

REMARKS.--Records estimated and poor for period of no gage-height record prior to June 5, fair thereafter.

AVERAGE DISCHARGE.--12 years (water years 1971-79, 1982-84), 41.5 ft^3/s, 3.20 in/yr, 30,070 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,980 ft^3/s June 6, 1971, gage height, 24.50 ft, at site then in use; no flow during winter periods each year.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 12, 1980 had a stage of 22.6 ft and discharge of 5,800 ft^3/s, from information by private engineering firm.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,640 ft^3/s June 10, gage height, 18.20 ft; maximum gage-height, 18.38 ft June 10, backwater from ice; no flow Oct. 6 to May 25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.20	.00	.00	.00	.00	.00	.00	.00	1.0	39	4.6	119
2	.20	.00	.00	.00	.00	.00	.00	.00	2.0	34	4.6	114
3	.10	.00	.00	.00	.00	.00	.00	.00	2.0	30	4.6	108
4	.10	.00	.00	.00	.00	.00	.00	.00	4.0	27	5.3	102
5	.10	.00	.00	.00	.00	.00	.00	.00	6.6	24	5.3	98
6	.00	.00	.00	.00	.00	.00	.00	.00	11	22	5.3	91
7	.00	.00	.00	.00	.00	.00	.00	.00	26	20	5.8	83
8	.00	.00	.00	.00	.00	.00	.00	.00	200	20	5.8	79
9	.00	.00	.00	.00	.00	.00	.00	.00	600	16	7.6	77
10	.00	.00	.00	.00	.00	.00	.00	.00	1500	13	9.5	73
11	.00	.00	.00	.00	.00	.00	.00	.00	1060	12	16	69
12	.00	.00	.00	.00	.00	.00	.00	.00	970	10	18	65
13	.00	.00	.00	.00	.00	.00	.00	.00	830	9.1	18	62
14	.00	.00	.00	.00	.00	.00	.00	.00	680	8.1	20	59
15	.00	.00	.00	.00	.00	.00	.00	.00	558	7.6	22	56
16	.00	.00	.00	.00	.00	.00	.00	.00	446	7.2	25	54
17	.00	.00	.00	.00	.00	.00	.00	.00	365	6.7	31	51
18	.00	.00	.00	.00	.00	.00	.00	.00	296	7.2	36	49
19	.00	.00	.00	.00	.00	.00	.00	.00	243	6.7	38	47
20	.00	.00	.00	.00	.00	.00	.00	.00	193	6.7	43	44
21	.00	.00	.00	.00	.00	.00	.00	.00	153	6.2	45	43
22	.00	.00	.00	.00	.00	.00	.00	.00	131	5.8	48	41
23	.00	.00	.00	.00	.00	.00	.00	.00	114	5.3	69	39
24	.00	.00	.00	.00	.00	.00	.00	.00	98	5.0	106	37
25	.00	.00	.00	.00	.00	.00	.00	.00	85	5.0	123	36
26	.00	.00	.00	.00	.00	.00	.00	.10	75	5.3	133	35
27	.00	.00	.00	.00	.00	.00	.00	.20	62	5.0	139	33
28	.00	.00	.00	.00	.00	.00	.00	.40	53	5.0	139	32
29	.00	.00	.00	.00	.00	.00	.00	.60	49	5.0	136	31
30	.00	.00	.00	.00	---	.00	.00	.80	44	4.6	130	30
31	.00	---	.00	.00	---	.00	---	1.0	---	4.6	123	---
TOTAL	.70	.00	.00	.00	.00	.00	.00	3.10	8857.6	383.1	1516.4	1857
MEAN	.023	.000	.000	.000	.000	.000	.000	.10	295	12.4	48.9	61.9
MAX	.20	.00	.00	.00	.00	.00	.00	1.0	1500	39	139	119
MIN	.00	.00	.00	.00	.00	.00	.00	.00	1.0	4.6	4.6	30
CFSM	.000	.000	.000	.000	.000	.000	.000	.001	1.68	.07	.28	.35
IN.	.00	.00	.00	.00	.00	.00	.00	.00	1.87	.08	.32	.39
AC-FT	1.4	.00	.00	.00	.00	.00	.00	6.1	17570	760	3010	3680

CAL YR 1983 TOTAL 17361.18 MEAN 47.6 MAX 2800 MIN .00 CFSM .27 IN 3.67 AC-FT 34440
WTR YR 1984 TOTAL 12617.90 MEAN 34.5 MAX 1500 MIN .00 CFSM .20 IN 2.67 AC-FT 25030

15904900 ATIGUN RIVER TRIBUTARY NEAR PUMP STATION 4

LOCATION.--Lat 68°22'25", long 149°18'48", in NE¼SE¼ sec.28, T.12 S., R.12 E., North Slope Borough, Hydrologic Unit 19010001, on right bank 0.2 mi upstream from culvert at mile 191 on Dalton Highway, 0.9 mi upstream from mouth and 4 mi south of Pump Station 4.

DRAINAGE AREA.--32.6 mi².

PERIOD OF RECORD.--October 1976 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 2,790 ft, from topographic map.

REMARKS.--Records estimated and poor for periods of no gage-height record prior to May 30 and after Aug. 30, fair otherwise.

AVERAGE DISCHARGE.--8 years, 29.9 ft³/s, 12.46 in/yr, 21,660 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 975 ft³/s June 20, 1984, gage height, 14.45 ft, from rating curve extended above 260 ft³/s on basis of slope-area measurement at a gage height of 14.5 ft; no flow during winter periods.

EXTREMES OUTSIDE OF PERIOD OF RECORD.--Flood of July 29-30, 1976 reached a stage of 14.5 ft, from floodmarks, discharge, 1,000 ft³/s, from slope-area measurement.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 975 ft³/s June 20, gage height 14.45 ft; no flow Oct. 1 to May 25.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.00	.00	.00	.00	.00	.00	.00	.00	12	97	87	20
2	.00	.00	.00	.00	.00	.00	.00	.00	17	95	118	17
3	.00	.00	.00	.00	.00	.00	.00	.00	20	100	212	13
4	.00	.00	.00	.00	.00	.00	.00	.00	30	119	318	11
5	.00	.00	.00	.00	.00	.00	.00	.00	30	160	189	9.0
6	.00	.00	.00	.00	.00	.00	.00	.00	40	122	123	8.0
7	.00	.00	.00	.00	.00	.00	.00	.00	88	165	88	7.0
8	.00	.00	.00	.00	.00	.00	.00	.00	96	136	91	6.0
9	.00	.00	.00	.00	.00	.00	.00	.00	95	94	133	5.0
10	.00	.00	.00	.00	.00	.00	.00	.00	106	71	176	4.0
11	.00	.00	.00	.00	.00	.00	.00	.00	127	115	110	4.0
12	.00	.00	.00	.00	.00	.00	.00	.00	116	106	77	3.0
13	.00	.00	.00	.00	.00	.00	.00	.00	146	90	60	3.0
14	.00	.00	.00	.00	.00	.00	.00	.00	152	73	53	3.0
15	.00	.00	.00	.00	.00	.00	.00	.00	182	60	59	2.0
16	.00	.00	.00	.00	.00	.00	.00	.00	237	62	78	2.0
17	.00	.00	.00	.00	.00	.00	.00	.00	221	54	123	2.0
18	.00	.00	.00	.00	.00	.00	.00	.00	222	142	187	2.0
19	.00	.00	.00	.00	.00	.00	.00	.00	195	123	241	2.0
20	.00	.00	.00	.00	.00	.00	.00	.00	427	98	243	2.0
21	.00	.00	.00	.00	.00	.00	.00	.00	197	108	136	2.0
22	.00	.00	.00	.00	.00	.00	.00	.00	208	85	87	1.0
23	.00	.00	.00	.00	.00	.00	.00	.00	145	70	74	1.0
24	.00	.00	.00	.00	.00	.00	.00	.00	157	67	60	1.0
25	.00	.00	.00	.00	.00	.00	.00	.00	287	87	47	1.0
26	.00	.00	.00	.00	.00	.00	.00	.10	219	170	38	1.0
27	.00	.00	.00	.00	.00	.00	.00	.10	108	160	33	1.0
28	.00	.00	.00	.00	.00	.00	.00	.20	85	124	26	1.0
29	.00	.00	.00	.00	.00	.00	.00	.50	85	112	27	1.0
30	.00	.00	.00	.00	---	.00	.00	1.0	103	100	25	1.0
31	.00	---	.00	.00	---	.00	---	5.0	---	96	22	---
TOTAL	.00	.00	.00	.00	.00	.00	.00	6.90	4153	3261	3341	136.0
MEAN	.000	.000	.000	.000	.000	.000	.000	.22	138	105	108	4.53
MAX	.00	.00	.00	.00	.00	.00	.00	5.0	427	170	318	20
MIN	.00	.00	.00	.00	.00	.00	.00	.00	12	54	22	1.0
CFSM	.000	.000	.000	.000	.000	.000	.000	.007	4.23	3.22	3.31	.14
IN.	.00	.00	.00	.00	.00	.00	.00	.01	4.74	3.72	3.81	.16
AC-FT	.00	.00	.00	.00	.00	.00	.00	14	8240	6470	6630	270

CAL YR 1983	TOTAL	9814.00	MEAN	26.9	MAX	337	MIN	.00	CFSM	.83	IN	11.20	AC-FT	19470
WTR YR 1984	TOTAL	10897.90	MEAN	29.8	MAX	427	MIN	.00	CFSM	.91	IN	12.44	AC-FT	21620

15908000 SAGAVANIRKTOK RIVER NEAR PUMP STATION 3

LOCATION.--Lat 69°00'54", long 148°49'02", in NW¼ sec.16, T.5 S., R.14 E., North Slope Borough, Hydrologic Unit 19010001, on left bank 600 ft east of Dalton Highway at mi 419, 6.0 mi upstream from Lupine River, and 15 mi north of Pump Station 3.

DRAINAGE AREA.--1,860 mi², approximately.

PERIOD OF RECORD.--September 1982 to current year.

GAGE.--Water-stage recorder. Altitude is 1,150 ft, from topographic map.

REMARKS.--Records estimated and poor for period of no gage-height record prior to June 6, fair thereafter.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, about 23,000 ft³/s June 1, 1983, gage height, 21.07 ft, backwater from ice; no flow during winter periods.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 13,100 ft³/s Aug. 4, gage height, 17.63 ft; no flow Feb. 11 to May 5.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	430	100	50	40	10	.00	.00	.00	1100	3730	3820	1620
2	430	100	50	40	10	.00	.00	.00	1500	3290	3890	1520
3	430	100	50	40	10	.00	.00	.00	2000	3080	6390	1410
4	420	100	50	40	10	.00	.00	.00	2600	3170	11900	1320
5	420	100	50	40	10	.00	.00	.00	3200	3350	10600	1240
6	410	90	50	40	10	.00	.00	10	4000	3570	7240	1180
7	400	90	50	40	10	.00	.00	10	4400	4190	5190	1110
8	390	90	50	40	10	.00	.00	10	4600	5560	3990	1080
9	380	90	50	40	10	.00	.00	10	4800	5180	5330	1020
10	370	80	50	40	10	.00	.00	10	5000	4450	9300	978
11	350	80	50	30	.00	.00	.00	10	5200	4420	7330	950
12	350	80	50	30	.00	.00	.00	10	5400	5110	5050	916
13	350	80	50	30	.00	.00	.00	10	5800	4060	3830	892
14	350	80	50	30	.00	.00	.00	10	6450	3290	3110	856
15	300	70	50	30	.00	.00	.00	10	6260	2740	3080	842
16	300	70	40	30	.00	.00	.00	20	6890	2430	4180	840
17	300	70	40	30	.00	.00	.00	20	7720	2230	4040	822
18	250	70	40	30	.00	.00	.00	30	7350	2470	5580	798
19	250	70	40	30	.00	.00	.00	40	6820	4810	7130	774
20	250	70	40	30	.00	.00	.00	50	7660	3950	9640	760
21	250	60	40	30	.00	.00	.00	60	7040	3910	7760	720
22	200	60	40	30	.00	.00	.00	70	5890	3650	5330	710
23	200	60	40	20	.00	.00	.00	80	5770	3040	4260	700
24	200	60	40	20	.00	.00	.00	120	4690	2630	4530	680
25	200	60	40	20	.00	.00	.00	150	5060	2500	3630	670
26	150	60	40	20	.00	.00	.00	200	5900	3120	2970	660
27	150	60	40	20	.00	.00	.00	240	4140	4140	2530	640
28	150	60	40	20	.00	.00	.00	350	3000	3980	2320	630
29	150	60	40	20	.00	.00	.00	500	2920	3420	2080	620
30	100	60	40	20	---	.00	.00	600	3170	3580	1870	600
31	100	---	40	10	---	.00	---	700	---	3570	1760	---
TOTAL	8980	2280	1390	930	100.00	.00	.00	3330.00	146330	112620	159660	27558
MEAN	290	76.0	44.8	30.0	3.45	.000	.000	107	4878	3633	5150	919
MAX	430	100	50	40	10	.00	.00	700	7720	5560	11900	1620
MIN	100	60	40	10	.00	.00	.00	.00	1100	2230	1760	600
CFSM	.16	.04	.02	.02	.002	.000	.000	.06	2.62	1.95	2.77	.49
IN.	.18	.05	.03	.02	.00	.00	.00	.07	2.93	2.25	3.19	.55
AC-FT	17810	4520	2760	1840	198	.00	.00	6610	290200	223400	316700	54660

CAL YR 1983 TOTAL 363232.00 MEAN 995 MAX 20000 MIN .00 CFSM .54 IN 7.26 AC-FT 720500
WTR YR 1984 TOTAL 463178.00 MEAN 1266 MAX 11900 MIN .00 CFSM .68 IN 9.26 AC-FT 918700

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DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

As the number of streams on which streamflow information is likely to be desired far exceeds the number of stream-gaging stations feasible to operate at one time, the Geological Survey collects limited stream-flow data at sites other than stream-gaging stations. When limited streamflow data are collected on a systematic basis over a period of years for use in hydrologic analyses, the site at which the data are collected is called a partial-record station. Data collected at these partial-record stations are useable in low-flow or floodflow analyses, depending on the type of data collected. In addition, discharge measurements are made at other sites not included in the partial-record program. These measurements are generally in times of drought or flood to give better areal coverage to those events. Those measurements and others collected for some special reason are called measurements at miscellaneous sites.

Records collected at partial-record stations are presented in the first table of annual maximum stage and discharge at crest-stage stations. Discharge measurements made at miscellaneous sites for both low flow and high flow are given in the second table.

Crest-stage partial-record stations

The following table contains annual maximum discharge for crest-stage stations. A crest-stage gage is a device which will register the peak stage occurring between inspections of the gage. A stage-discharge relation for each gage is developed from discharge measurements made by indirect measurements of peak flow or by current meter. The date of the maximum discharge is not always certain, but is usually determined by comparison with nearby continuous-record stations, weather records, or local inquiry. Only the maximum discharge for each water year is given. Information on some lower floods may have been obtained, but is not published herein. The years given in the period of record represent water years for which the annual maximum has been determined.

Annual maximum discharge at crest-stage gage partial-record stations during water year 1984

					Annual maximum		
Station No.	Station Name	Location	Drainage area (mi^2)	Period of record	Date	Gage height (ft)	Discharge (ft^3/s)
		South-central Alaska					
15198500	Station Creek near Mentasta	Lat 62°56'12", long 143°39'54", in SW¼ sec.2, T.13 N., R.9 E., on left bank, 0.3 mi upstream from wooden bridge on Mentasta Village Road, 1 mi west of Slana-Tok Highway, and 4 mi east of Mentasta.	15.3	1970-77, 1979-84	1984	n	n
15199000	Copper River Tributary near Slana	Lat 62°43'03", long 144°14'21", in SW¼ sec.23, T.11 N., R.6 E., on right bank 20 ft upstream from culvert at mi 51.8 on the Slana-tok Highway and 9 mi west of Slana.	4.32	1963-84	1984	n	n
15201000	Dry Creek near Glennallen	Lat 62°08'49", long 145°28'31", in NE¼ sec.7, T.4 N., R.1 W., on right bank 500 ft upstream from culvert at mi 119 Richardson Highway and 3.3 mi north of Glennallen.	11.4	1963-84	5- -84	16.45	76
15201100	Little Nelchina River Tributary near Eureka Lodge	Lat 61°59'17", long 147°00'34", in NW¼ sec.2, T.2 N., R.10 W., Matanuska-Susitna Borough, on right bank at mi 132 Glenn Highway and 6 mi northeast of Eureka Lodge.	7.81	1965-84	7-13-84	10.84	54
15208200	Rock Creek near Tonsina	Lat 61°45'32", long 145°09'14", in NW¼ sec.25, T.1 S., R.1 E., on right bank at mi 86.1 Richardson Highway, and 6.7 mi north of Tonsina Lodge.	14.3	1966-84	5-9-11-84	11.62	55
15211700	Strelna Creek near Chitina	Lat 61°30'40", long 144°04'00", in NE¼ sec.22, T.4 S., R.7 E., 15 ft upstream from culvert on Chitina-McCarthy Road and 13 mi east of Chitina.	23.8	1971-84	6- -84	22.38	158
15211900	O'Brien Creek near Chitina	Lat 61°28'59", long 144°27'23", in NW¼NW¼ sec.35, T.4 S., R.5 E., 100 ft upstream from timber bridge on trail to Copper River gaging station, 0.1 mi upstream from mouth at Copper River, and 2.5 mi south of Chitina.	44.8	1970-82, 1984	6- -84	2.78	990
15212500	Boulder Creek near Tiekel	Lat 61°20'08", long 145°18'26", in NW¼ sec.19, T.6 S., R.1 E., on left downstream wingwall at mi 51.4 Richardson Highway, and 0.7 mi north of Tiekel.	9.80	1964-84	6-18-20-84	10.16	180
15236200	Shakespeare Creek at Whittier	Lat 60°46'35", long 148°43'35", in NE¼ sec.22, T.8 N., R.4 E., on upstream right wingwall of concrete bridge 0.5 mi upstream from mouth, and 1.8 mi west of the Alaska railroad terminal building at Whittier.	3.05	1970-80, 1984	8-19-84	11.98	n

n To be determined.

Annual maximum discharge at crest-stage partial-record stations during water year 1984--Continued

Station No.	Station Name	Location	Drainage area (mi2)	Period of record	Annual maximum		
					Date	Gage height (ft)	Discharge (ft^3/s)
		South-central Alaska--Continued					
15238600	Spruce Creek near Seward	Lat 60°04'10", long 149°27'08", on left bank 0.7 mi upstream from mouth at Resurrection Bay and 2.4 mi south of Seward.	9.26	1966, ‡1967-79, 1980-84	8-21-83 8-18-20-84	r6.26 7.24	g1,400 2,150
15239500	Fritz Creek near Homer	Lat 59°42'30", long 151°20'35", in SW¼ sec.28, T.5 S., R.12 W., Kenai Peninsula Borough, on left bank 200 ft above culvert on East Road and 9 mi northeast of Homer.	10.4	1963-84	11-29-83	17.48	380
15240000	Anchor River at Anchor Point	Lat 59°46'21", long 151°50'05", in NW¼SE¼ sec.4, T.5 S., R.15 W., Kenai Peninsula Borough, at Old Sterling Highway bridge at Anchor Point, 0.1 mi downstream from North Fork and 1.0 mi upstream from mouth.	224	‡1953-66, 1984	11-30-83	8.51	11,000
15243950	Porcupine Creek near Primrose	Lat 60°20'30", long 149°22'15", in NE¼ sec.24, T.3 N., R.1 W., Kenai Peninsula Borough, on right bank at 18-mi campground road 0.2 mi upstream from mouth at Kenai Lake and 0.8 mi west of Primrose.	16.8	1963-84	5-31-83 8-18-20-84	11.66 11.31	g830 520
15266500	Beaver Creek near Kenai	Lat 60°33'30", long 151°07'03", in SE¼ sec.36, T.6 N., R.11 W., on right bank 75 ft downstream from culvert on Kenai-Soldotna Road, 2.0 mi upstream from mouth, and 4.5 mi east of Kenai.	a51.0	‡1968-78, 1980-83	1984	u	u
15272530	California Creek at Girdwood	Lat 60°57'45", long 149°08'23", in NW¼ sec.17, T.10 N., R.2 E., Municipality of Anchorage, at culverts on Alyeska Highway, 0.2 mi west of Girdwood Post Office, and 2.0 mi northeast of Seward-Anchorage Highway.	6.96	1967-84	5-30-83 8-25-84	14.89 15.41	g136 175
15283500	Eska Creek near Sutton	Lat 61°43'44", long 148°54'31", in NE¼ sec.21, T.19 N., R.3 E., Matanuska-Susitna Borough, on right bank 100 ft below culverts on Eska-Jonesville Road and 1.5 mi northeast of Sutton.	13.4	1966, 1971-84	8-25-84	7.17	300
15285000	Wasilla Creek near Palmer	Lat 61°38'47", long 149°11'45", in SW¼ sec.13, T.18 N., R.1 E., Matanuska-Susitna Borough, on left bank 60 ft upstream from culvert entrance on Wasilla Fishhook Road and 4.1 mi northeast of Palmer.	16.8	1971, 1976-84	5-01-83 8-25-84	9.33 9.66	r87 119
15285200	Wasilla Creek near Wasilla	Lat 61°34'09", long 149°18'50", in NE¼NW¼ sec.17, T.17 N., R.1 E., Matanuska-Susitna Borough, on left bank, 20 ft downstream from Parks Highway bridge, 4.2 mi east of Wasilla.	39.5	1980, 1981-84	9-16-80 8-15-81 7-25-82 5-01-83 8-25-84	3.46 u 3.17 2.55 2.64	g243 e150 g182 g87 110
15290100	Little Susitna River near Houston	Lat 61°37'36", long 149°48'03", in NE¼NW¼ sec.27, T.18 N., R.3 W., Matanuska-Susitna Borough, on right bank, 300 ft downstream from Parks Highway bridge and 1.6 mi east of Houston.	168	1980-81, 1984	9-16-80 7-11-81 8-26-84	15.31 12.68 12.87	g3,200 g2,070 2,170
15290200	Nancy Lake Tributary near Willow	Lat 61°41'17", long 149°57'58", in SE¼ SE¼ sec.34, T.19 N., R.4 W., Matanuska-Susitna Borough, 10 ft upstream from culvert at Parks Highway, 0.3 mi upstream from mouth, and 4.5 mi southeast of Willow	8.00	1980, 1983-84	6-21-80 8-24-83 4-29-84	12.42 11.31 10.55	g295 g124 51
15291100	Raft Creek near Denali	Lat 63°03'04", long 147°16'22", in SE¼ sec.36, T.21 S., R.2 E., Matanuska-Susitna Borough, on right bank above culverts at mi 69.2 Denali Highway and 10.7 mi southeast of Denali.	4.33	1963-77, 1979-84	6- -84	10.80	98

‡ Operated as a continuous-record station.
a Approximately.
e Estimated.
g Not previously published.
r Revised.
u Unknown.

Annual maximum discharge at crest-stage gage partial-record stations during water year 1984--Continued

Station No.	Station Name	Location	Drainage area (mi2)	Period of record	Annual maximum		
					Date	Gage height (ft)	Dis-charge (ft^3/s)
		South-central Alaska--Continued					
15292900	Goose Creek near Montana	Lat 62°03'42", long 150°03'20", in NW¼ NW¼ sec.29, T.23 N., R.4 W., Matanuska-Susitna Borough, on right bank, 15 ft downstream from culvert on Parks Highway, 1.5 mi south of Montana, and 23 mi north of Willow.	m	1963-71, 1984	8-25-84	3.40	1,260
15292990	Sheep Creek near Willow	Lat 61°59'45", long 150°02'43", in NE¼ SW¼ sec.17, T.22 N., R.4 W., Matanuska-Susitna Borough, on right bank, 175 ft downstream from Parks Highway bridge, 6.5 mi south of Montana, and 18 mi north of Willow	m	1984	8-25-84	2.82	1,910
15293000	Caswell Creek near Caswell	Lat 61°56'55", long 150°03'14", in SW¼ sec.32, T.22 N., R.4 W., Matanuska-Susitna Borough, below culvert on Parks Highway and 2.3 mi south of Caswell.	19.6	1963-84	7- -80 5-09-84	r11.55 11.52	r76 73
15293700	Little Willow Creek near Kashwitna	Lat 61°48'37", long 150°05'42", in SW¼NE¼ sec.24, T.20 N., R.5 W., Matanuska-Susitna Borough, on left bank, 100 ft downstream from Parks Highway bridge, 0.4 mi downstream from Rogers Creek, and 3.7 mi south of Kashwitna.	155	1980-84	7-28-80 8-15-81 9-16-82 6-03-83 8-25-84	12.49 11.54 11.40 11.22 11.96	g1,730 g1,270 g1,040 g930 1,340
15294025	Moose Creek near Talkeetna	Lat 62°19'00", long 150°26'30", in NE¼ sec.30, T.26 N., R.7 W., Matanuska-Susitna Borough, at bridge on Petersville Road and 10.5 mi west of Talkeetna.	52.3	1972-84	6- -84	25.12	830
15297475	Red Cloud Creek Tributary near Kodiak	Lat 57°49'00", long 152°37'20", in SW¼ sec.24, T.27 S., R.21 W., Kodiak Island Borough, 0.1 mi upstream from mouth and 8.4 mi northwest of Kodiak.	1.51	1963-84	11-28-83	13.40	690
		Southwest Alaska					
15302900	Moody Creek at Aleknagik	Lat 59°16'34", long 158°35'42", in SE¼ sec.30, T.10 S., R.55 W., on left bank 12 ft upstream from culvert entrance and 500 ft upstream from mouth at Wood River at the Aleknagik Mission.	1.28	1969-73, 1975-84	1984	18.35	25
		Yukon Alaska					
15305900	Dennison Fork near Tetlin Junction	Lat 63°25'24", long 142°29'00", in SW¼ sec.14, T.19 N., R.15 E., on right bank 10 ft upstream from culvert at mi 10.7 Taylor Highway and 8.3 mi northeast of Tetlin Junction.	2.93	1964-84	6- -84	12.73	51
15305920	West Fork Tributary near Tetlin Junction	Lat 63°40'03", long 142°16'00", in SW¼ sec.23, T.22 N., R.16 E., on left bank 7 ft upstream from culvert at mi 32 Taylor Highway and 26.5 mi northeast of Tetlin Junction.	1.02	1967-84	6- -84	10.78	26
15305950	Taylor Creek near Chicken	Lat 63°54'27", long 142°12'58", in NW¼ sec.35, T.25 N., R.16 E., on right bank 29 ft upstream from bridge at mi 50.3 Taylor Highway and 14.5 mi southwest of Chicken.	38.4	1967-84	7-27-84	14.22	410
15453481	West Fork Dall River Tributary near Stevens Village	Lat 66°17'53", long 150°23'10", in SW¼ sec.17, T.17 N., R.13 W., on left bank 20 ft upstream from culvert on Dalton Highway, 2.3 mi upstream from mouth, and 43 mi northwest of Stevens Village.	4.18	1981-84	6- -84	13.01	n
15453610	Ray River Tributary near Stevens Village	Lat 65°56'57", long 150°55'00", in SE¼ sec.17, T.13 N., R.11 W., on right bank 10 ft upstream from culvert on TAPS haul road and 22 mi west of Stevens Village.	8.00	1977-84	5- -79 5- -84	r20.36 16.78	220 52

g Not previously published.
n To be determined.
r Revised.
m Drainage area undefined due to cross-drainage flow from Sheep Creek to Goose Creek.

BEST COPY AVAILABLE

Annual maximum discharge at crest-stage gage partial-record stations during water year 1984--Continued

Station No.	Station Name	Location	Drainage area (mi2)	Period of record	Annual maximum Date	 Gage height (ft)	 Dis-charge (ft³/s)
		Yukon Alaska--Continued					
15457700	Erickson Creek near Livengood	Lat 65°34'30", long 148°56'18", in SE¼ sec.26, T.9 N., R.7 W., at culvert at mi 12.5 on the TAPS haul road and 12.5 mi northwest of Livengood.	26.3	1973-84	6- -84	20.62	300
15470300	Little Jack Creek near Nabesna	Lat 62°32'47", long 143°19'30", in SE¼ sec.22, T.9 N., R.11 E., on left bank 0.2 mi upstream from wooden bridge at mi 25.8 Nabesna Road and 15.6 mi northwest of Nabesna.	6.73	1975-84	8- -84	16.36	123
15470330	Chalk Creek near Nabesna	Lat 62°30'19", long 143°09'24", in NE¼ sec.3, T.8 N., R.12 E., on right bank 0.1 mi upstream from wooden bridge at mi 32.3 Nabesna Road and 10.3 mi northwest of Nabesna.	14.8	1975-84	6- -84	16.33	92
15471000	Bitters Creek near Northway Junction	Lat 63°09'38", long 142°05'20", in SE¼ sec.13, T.16 N., R.17 E., on left bank 52 ft upstream from culvert at mi 1,280 Alaska Highway 1 mi upstream from mouth at Tanana River and 13.5 mi northwest of Northway Junction.	15.4	1964, 1966-84	7-27-84	13.71	331
15471500	Tanana River Tributary near Tetlin Junction	Lat 63°16'45", long 142°30'27", in SE¼ sec.3, T.17 N., R.15 E., on left bank 6 ft upstream from culvert at mi 1,297.8 Alaska Highway and 3.7 mi southeast of Tetlin Junction.	2.43	1965-84	7-27-84	12.07	18
15473600	Log Cabin Creek at Log Cabin Inn	Lat 63°01'48", long 143°20'36", on right bank 20 ft upstream from bridge at mi 97.4 on the old section of the Slana-Tok Highway and 24.9 mi southwest of Tok.	10.7	1966-84	6- -84	10.72	159
15476049	Tanana River Tributary near Cathedral Rapids	Lat 63°24'24", long 143°48'28", in SE¼ sec.23, T.19 N., R.8 E., on left bank 0.3 mi upstream from culvert at mi 1,341 Alaska Highway 0.6 mi upstream from mouth at Tanana River and 2.5 mi northwest of Cathedral Rapids.	3.09	1970, 1973-84	7-27-84	14.60	205
15476300	Berry Creek near Dot Lake	Lat 63°41'23", long 144°21'47", in NW¼ sec.13, T.22 N., R.5 E., on left bank 100 ft upstream from bridge at mile 1,371.4 on Alaska Highway, 1.9 mi upstream from mouth, and 6.0 mi west of Dot Lake.	65.1	1963-71, ‡1972-81, 1983-84	6- -84	13.52	1,230
15476400	Dry Creek near Dot Lake	Lat 63°41'32", long 144°34'16", in NW¼ sec.24, T.14 S., R.16 E., on piling near right bank 64 ft above bridge at mi 1,378.1 Alaska Highway 0.6 mi upstream from mouth at Tanana River and 15.7 mi west of Dot Lake.	57.6	1964-65, ‡1966-69, 1970-84	7-27-84	15.50	1,700
15478010	Rock Creek near Paxson	Lat 63°04'16", long 146°06'17", in NW¼ sec.30, T.21 S., R.9 E., on right bank 25 ft upstream at mi 24.8 Denali Highway and 18 mi west of Paxson.	50.3	1963-84	6- -84	10.68	660
15478050	McCallum Creek near Paxson	Lat 63°13'27", long 145°38'56", in SW¼ sec.33, T.19 S., R.11 E., on right bank upstream wingwall 8 ft upstream from bridge at mi 202.4 Richardson Highway 0.5 mi upstream from mouth at Phelan Creek and 14.5 mi northwest of Paxson.	15.5	1967-84	7- -84	11.49	480
15480000	Banner Creek at Richardson	Lat 64°17'24", long 146°20'56", in SW¼ sec.22, T.7 S., R.7 E., Fairbanks North-Star Borough, on left bank 400 ft upstream from bridge at mi 295.4 Richardson Highway 0.1 mi upstream from mouth at Tanana River and 0.4 mi northwest of Richardson.	20.2	1963-84	7-26-84	14.45	630

‡ Operated as a continuous-record station.

Annual maximum discharge at crest-stage gage partial-record stations during water year 1984--Continued

Station No.	Station Name	Location	Drainage area (mi2)	Period of record	Annual maximum Date	Annual maximum Gage height (ft)	Annual maximum Discharge (ft³/s)
		Yukon Alaska--Continued					
15490000	Monument Creek at Chena Hot Springs	Lat 65°03'17", long 146°03'05", in SE¼ sec.26, T.3 N., R.8 E., Fairbanks North-Star Borough , on left bank 800 ft from lodge at Chena Hot Springs, 0.4 mi upstream from unnamed tributary, and 1.3 mi upstream from North Fork Chena River.	26.7	1967, 1970-77, 1979-84	6-16-84	27.82	870
15515800	Seattle Creek near Cantwell	Lat 63°19'32", long 148°14'49", on line between sec.25 and 26, T.18 S., R.4 W., Matanuska-Susitna Borough, on left downstream wingwall of bridge at mi 110.9 Denali Highway and 22.4 mi southeast of Cantwell.	36.2	1964-65, ‡1966-75, 1976-77, 1979-84	6- -84	5.16	426
15516200	Slime Creek near Cantwell	Lat 63°30'34", long 148°48'39", in SE¼ sec.24, T.16 S., R.7 W., on right bank upstream from culvert on Parks Highway and 9.1 mi northeast of Cantwell.	6.90	1966-84	7-26-84	12.97	128
15518250	Birch Creek near Rex	Lat 64°10'35", long 149°17'26", in SW¼ sec.35, T.8 S., R.9 W., on left bank 20 ft upstream from culvert on the Parks Highway and 4.2 mi south of Rex.	4.10	1965-84	7-26-84	10.54	117
15519200	Brooks Creek Tributary near Livengood	Lat 65°23'02", long 148°56'12", on line between sec.2, T.6 N., R.7 W., and sec. 35, T.7 N., R.7 W., on right bank 20 ft upstream from culvert at mi 84 Elliot Highway and 15 mi southwest of Livengood.	7.81	1964-84	5-25-84	9.53	59
15520000	Idaho Creek near Miller House	Lat 65°21'13", long 146°09'33", in NW¼ sec.17, T.6 N., R.8 E., Fairbanks North-Star Borough, on right bank 100 ft down stream from culverts at mi 79 Steese Highway and 30 mi southwest of Miller House.	5.31	1963-84	7- -84	14.87	n
15541600	Globe Creek near Livengood	Lat 65°17'08", long 148°07'56", 0.1 mi upstream from culverts at mi 38 Elliot Highway 9 mi upstream from mouth and 19 mi southeast of Livengood.	23.0	1964-84	7- -84	15.47	430
15564868	Snowden Creek near Wiseman	Lat 67°44'16", long 149°45'10", in SW¼ sec.26, T.34 N., R.10 N., on right bank 20 ft upstream from culvert on the Dalton Highway and 24.5 mi northeast of Wiseman.	16.7	1968, 1977-84	5- -84	26.63	465
15564872	Nugget Creek near Wiseman	Lat 67°29'25", long 149°52'20", in NW¼ sec.3, T.31 N., R.10 W., on right bank 300 ft upstream from culvert at the Dalton Highway and 8.7 mi northeast of Wiseman.	9.47	1975-84	8- 4-84	16.59	180
15564879	Slate Creek at Coldfoot	Lat 67°15'17", long 150°10'24", in NW¼ sec.15, T.28 N., R.12 W., at bridge on Dalton Highway and at Coldfoot.	73.4	1977, 1980-84	8- 4-84	19.85	n
15564884	Prospect Creek near Prospect Camp	Lat 66°46'56", long 150°41'06", in NW¼ sec.31, T.23 N., R.14 W., on left bank 200 ft upstream from bridge on the Dalton Highway, 0.4 mi downstream from TAPS pipeline crossing, 1.5 mi upstream from mouth, and 2.1 mi south of Pump Station 5.	110	1968, 1975-84	8- -84	8.31	3,030
15564887	Bonanza Creek Tributary near Prospect Camp	Lat 66°36'52", long 150°41'24", in SE¼ sec.25, T.21 N., R.15 W., on right bank 0.3 mi downstream from culverts on the Dalton Highway, 3.4 mi upstream from mouth, and 13.5 mi south of Pump Station 5.	11.7	1975-84	5- -84	18.81	185

‡ Operated as a continuous-record station.
n To be determined.

Annual maximum discharge at crest-stage gage partial-record stations during water year 1984--Continued

Station No.	Station Name	Location	Drainage area (mi2)	Period of record	Annual maximum		
					Date	Gage height (ft)	Discharge (ft^3/s)
		Northwest Alaska					
15585000	Goldengate Creek near Nome	Lat 64°26'03", long 165°02'46", in SW¼ sec.15, T.12 S., R.32 W., on right bank 500 ft upstream from culvert on Nome-Council Road and 11 mi southeast of Nome.	1.55	1965, 1977-84	7-31-84	11.67	37
15619000	Dexter Creek near Nome	Lat 64°35'11", long 165°16'39", in NE¼ sec.33, T.10 S., R.33 W., on left bank 800 ft upstream from culvert on Nome-Teller Road 0.2 mi upstream from mouth and 7 mi northeast of Nome.	2.99	1978, 1981-84	6- -84	12.08	97
15624998	Arctic Creek above tributary near Nome	Lat 64°38'16", long 165°42'42", in NE¼ sec.8, T.10 S., R.35 W., on right bank 300 ft upstream from culvert on Nome-Teller Road 2 mi upstream from mouth and 13 mi northwest of Nome.	1.13	1975, 1979-84	7-31-84	18.58	94
15633000	Washington Creek near Nome	Lat 64°42'52", long 165°49'13", in NW¼ sec.14, T.9 S., R.35 W., 400 ft upstream from culvert on Nome-Teller Road and 19 mi northwest of Nome.	6.34	1964-84	7-31-84	21.50	n
15668100	Star Creek near Nome	Lat 64°55'40", long 164°57'39", in NW¼ sec.33, T.6 S., R.31 W., on right bank upstream from culvert at mi 40.5 Nome-Taylor road 0.9 mi upstream from mouth and 32 mi northeast of Nome.	3.78	1964-65, 1967-84	6- -84	10.73	87
		Arctic Slope Alaska					
15906000	Sagavanirktok River Tributary near Pump Station 3	Lat 68°41'13", long 149°05'42", in NE¼SW¼ sec.4, T.9 S., R.13 E., North-Slope Borough on left bank 30 ft upstream from culverts on Dalton Highway, 16.5 mi upstream from mouth, and 14 mi south of Pump Station 3.	28.4	1979-84	8- 4-84	18.87	n
15910200	Happy Creek at Happy Valley Camp	Lat 69°08'50", long 148°49'50", in SE¼ sec.30, T.3 S., R.14 E., North-Slope Borough, on right bank at Happy Valley Camp 1 mi upstream from mouth and 17.5 mi south of Sagwon.	34.5	1972-84	6- -84	17.24	1,000

n To be determined.

DISCHARGE AT MISCELLANEOUS SITES

Discharge measurements made at miscellaneous sites during water year 1984

Stream	Tributary to	Location	Drainage area (mi²)	Measured previously (water years)	Measurements Date	Measurements Discharge (ft³/s)
		Southeast Alaska				
Jordan Creek	Gastineau Channel	Lat 58°21'55", long 134°34'37", in NW¼ NE¼ sec.31, T.40 S., R.66 E., City and Borough of Juneau, at Trout Street Bridge, and 3 mi southeast of Auke Bay.	1.07	--	7-16-84	101
Mendenhall River	Gastineau Channel	Lat 58°24'42", long 134°34'30", in SW¼ SE¼ sec.7, T.40 S., R.66 E., City and Borough of Juneau, in Tongass National Forest, at Mendenhall Lake Outlet, 5.8 mi upstream from mouth, and 3.1 mi northeast of Auke Bay.	--	--	3- 5-84	71
Mendenhall River	Gastineau Channel	Lat 58°24'18", long 134°34'30", in SW¼ NE¼ sec.18, T.40 S., R.66 E., City and Borough of Juneau, in Tongass National Forest, 5.3 mi upstream from mouth, and 2.9 mi northeast of Auke Bay.	--	--	3- 5-84	71
Mendenhall River	Gastineau Channel	Lat 58°24'18", long 134°34'46", in SE¼ NW¼ sec.18, T.40 S., R.66 E., City and Borough of Juneau, in Tongass National Forest, 5.0 mi upstream from mouth, and 2.7 mi northeast of Auke Bay.	--	--	3- 5-84	81
Mendenhall River	Gastineau Channel	Lat 58°24'05", long 134°35'02", in SE¼ NW¼ sec.18, T.40 S., R.66 E., City and Borough of Juneau, in Tongass National Forest, 4.7 mi upstream from mouth, and 2.5 mi northeast of Auke Bay.	--	--	3- 5-84	81
Mendenhall River	Gastineau Channel	Lat 58°23'57", long 134°34'59", in NE¼ SW¼ sec.18, T.40 S., R.66 E., City and Borough of Juneau, 4.5 mi upstream from mouth, and 3.5 mi northeast of Auke Bay.	--	--	3- 5-84	93
Mendenhall River	Gastineau Channel	Lat 58°23'51", long 134°35'05", in SE¼ SW¼ sec.18, T.40 S., R.66 E., City and Borough of Juneau, 4.3 mi upstream from mouth, and 2.4 mi northeast of Auke Bay.	--	--	3- 5-84	101
Mendenhall River	Gastineau Channel	Lat 58°23'42", long 134°35'05", in SE¼ SW¼ sec.18, T.40 S., R.66 E., City and Borough of Juneau, 4.0 mi upstream from mouth, and 2.3 mi northeast of Auke Bay.	--	--	3- 5-84	95
Mendenhall River	Gastineau Channel	Lat 58°23'22", long 134°35'30", in SE¼ NE¼ sec.24, T.40 S., R.65 E., City and Borough of Juneau, 3.5 mi upstream from mouth, and 2.0 mi east of Auke Bay.	--	--	3- 5-84	88
Mendenhall River	Gastineau Channel	Lat 58°23'07", long 134°35'28", in NW¼ SW¼ sec.19, T.40 S., R.66 E., City and Borough of Juneau, 3.0 mi upstream from mouth, and 2.1 mi east of Auke Bay.	--	--	3- 5-84	105
Mendenhall River	Gastineau Channel	Lat 58°22'52", long 134°35'34", in SE¼ SE¼ sec.24, T.40 S., R.65 E., City and Borough of Juneau, above Montana Creek, 2.7 mi upstream from mouth, and 2.0 mi southeast of Auke Bay.	87.5	(z)	3- 5-84	97
Montana Creek	Mendenhall River	Lat 58°25'33", long 134°37'46", in SE¼ sec.2, T.40 S., R.65 E., at bridge, 3.5 mi above mouth, and 3 mi north of Auke Bay.	13.1	c1965-66, c1983	10-28-83 12- 2-83	103 18
Montana Creek	Mendenhall River	Lat 58°23'41", long 134°36'21", in SE¼ SW¼. sec.13, T.40 S., R.65 E., City and Borough of Juneau, 1.2 mi upstream from mouth, and 0.5 mi east of Auke Bay.	--	--	3- 5-84	57

* See analyses of samples collected at miscellaneous sites.
c Published in Miscellaneous Measurement Table.
z Prior measurements (1965-66, 68) may differ because of development upstream.

Discharge measurements made at miscellaneous sites during water year 1984--Continued

Stream	Tributary to	Location	Drainage area (mi²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft³/s)
		Southeast Alaska--Continued				
Montana Creek	Mendenhall River	Lat 58°23'26", long 134°36'16", in SW¼ NE¼ sec.24, T.40 S., R.65 E., City and Borough of Juneau, 0.9 mi upstream from mouth, and 6 mi east of Auke Bay.	--	--	3- 5-84	56
Montana Creek	Mendenhall River	Lat 58°23'09", long 134°36'37", in NW¼ SE¼ sec.24, T.40 S., R.65 E., City and Borough of Juneau, 0.4 mi upstream from mouth, and 1.5 mi east of Auke Bay.	--	--	3- 5-84	58
Montana Creek	Mendenhall River	Lat 58°23'04", long 134°35'58", in NW¼ SE¼ sec.24, T.40 S., R.65 E., City and Borough of Juneau, 0.2 mi upstream from mouth, and 1.6 mi east of Auke Bay.	--	--	3- 5-84	61
Montana Creek	Mendenhall River	Lat 58°22'56", long 134°35'50", in SE¼ SE¼ sec.24, T.40 S., R.65 E., City and Borough of Juneau, 0.05 mi upstream from mouth, and 1.8 mi east of Auke Bay.	--	c1965-68	3- 5-84	59
Mendenhall River	Gastineau Channel	Lat 58°22'28", long 134°35'43", in SE¼ NE¼ sec.25, T.40 S., R.65 E., City and Borough of Juneau, 0.7 mi downstream from Montana Creek, 1.9 mi upstream from mouth, and 2.1 mi southeast of Auke Bay.	--	--	3- 5-84	187
Mendenhall River	Gastineau Channel	Lat 58°22'12", long 134°36'02", in NW¼ SE¼ sec.25, T.40 S., R.65 E., City and Borough of Juneau, at Brotherhood Bridge, 1.6 mi upstream from mouth, and 2.2 mi southeast of Auke Bay.	--	--	3- 5-84	175
Mendenhall River	Gastineau Channel	Lat 58°21'42", long 134°35'50", in SE¼ NE¼ sec.36, T.40 S., R.65 E., City and Borough of Juneau, 0.9 mi upstream from mouth, and 2.6 mi southeast of Auke Bay.	--	--	3- 5-84	191
+Greens Creek above Big Sore Creek near Juneau	Hawk Inlet	Lat 58°05'02", long 134°37'14", on Admiralty Island, about 200 ft upstream from Big Sore Creek, 7.0 mi upstream from mouth, and 19 mi southwest of Juneau.	--	c1980, c1983	9- 7-84	24
+Big Sore Creek	Greens Creek	Lat 58°05'00", long 134°37'19", on Admiralty Island, about 150 ft upstream from mouth, and 19 mi southwest of Juneau.	--	c1978-80, c1983	9- 7-84	2.5
+East Mine Drainage Creek	Greens Creek	Lat 58°05'00", long 134°37'33", on Admiralty Island, about 75 ft upstream from mouth and 19 mi southwest of Juneau.	--	1978, c1979-80, c1983	9- 7-84	0.27
+Greens Creek below Gallagher Creek	Hawk Inlet	Lat 58°04'42", long 134°38'56", NE¼ sec.8, T.44 S., R.66 E., on Admiralty Island, 0.15 mi downstream from Gallagher Creek near Juneau.	--	--	9- 7-84	41
+East Mine Drainage Creek below pond	Greens Creek	Lat 58°04'31", long 134°38'52", on Admiralty Island, at settling pond outlet, 19 mi southwest of Juneau.	--	c1983	9- 7-84	0.05
+Noranda Exploratory Adit	East Mine Drainage Creek	Lat 58°04'30", long 134°39'00", on Admiralty Island, at entrance and 19 mi southwest of Juneau.	--	c1983	9- 7-84	0.07

+ See analyses of samples collected at miscellaneous sites.
: Published in Miscellaneous Measurement Table.

Discharge measurements made at miscellaneous sites during water year 1984--Continued

Stream	Tributary to	Location	Drainage area (mi²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft³/s)
		South-central Alaska				
15201000 Dry Creek near Glenallen	Copper River	Lat 62°08'49", long 145°28'31", in NE¼ sec.7, T.4 N., R.1 W., 500 ft upstream from culvert at mi 119 Richardson Highway and 3.3 mi north of Glennallen.	11.4	c†1963-83	5-14-84	30
15201100 Little Nelchina River tributary near Eureka Lodge	Little Nelchina River	Lat 61°59'17", long 147°00'34", in NW¼ sec.2, T.2 N., R.10 W., Matanuska-Susitna Borough, at culvert at mi 132 Glenn Highway and 6 mi sorcheast of Eureka Lodge.	7.81	c†1966-83	5-14-84	12
15208200 Rock Creek near Tonsina	Willow Creek	Lat 61°45'32", long 145°09'14", in NW¼ sec.25, T.1 S., R.1 E., at culvert at mi 86.1 Richardson Highway, and 6.7 mi north of Tonsina Lodge.	14.3	c†1966-83	5-14-84	18
15209000 Chititu Creek near May Creek	Nizina River	Lat 61°22'12", long 142°40'50", in NW¼ sec.11, T.6 S., R.15 E., 10 ft below wooden bridge on May Creek-Dan Creek Road and 2 mi north of May Creek landing strip.	30.9	c†1973-83	10- 4-83	66
15209100 May Creek near May Creek	Nizina River	Lat 61°20'42", long 142°41'49", in SE¼ sec.15, T.6 S., R.15 E., 100 ft west of the May Creek-Dan Creek Road and 0.3 mi northwest of the north end of the May Creek landing strip.	10.4	c†1973-83	10- 4-83	9.0
15211700 Strelna Creek near Chitina	Kuskulana River	Lat 61°30'40", long 144°04'00", in NE¼ sec.22, T.4 S., R.7 E., 300 ft upstream from timber bridge on Chitina-McCarthy Road and 13 mi east of Chitina.	23.8	c†1971-83	6-26-84	4[illegible]
15211900 O'Brien Creek near Chitina	Copper River	Lat 61°28'59", long 144°27'23", in NW¼ NW¼ sec.35, T.4 S., R.5 E., 100 ft upstream from timber bridge on trail to Copper River gaging station, 0.1 mi upstream from mouth at Copper River, and 2.5 mi south of Chitina.	44.8	c†1970-83	6-26-84	307
15212500 Boulder Creek near Tiekel	Tiekel River	Lat 61°20'08", long 115°18'20", in NW¼ sec.19, T.6 S., R.1 E., at mi 51.4 on the Richardson Highway, 0.7 mi north of Tiekel.	9.80	c†1964-83	6-25-84	112
15238600 Spruce Creek near Seward	Resurrection Bay	Lat 60°04'10", long 149°27'08", Kenai Peninsula Borough, 0.7 mi upstream from mouth at Resurrection Bay and 2.4 mi south of Seward.	9.26	1966, ‡1967-79, c†1980-83	6- 8-84	155
15239500 Fritz Creek near Homer	Kachemak Bay	Lat 59°42'30", long 151°20'35", in SW¼ sec.28, T.5 S., R.12 W., Kenai Peninsula Borough, 200 ft upstream from culvert on East Road and 9 mi northeast of Homer.	10.4	†1963-83	6- 7-84	16
15240000 Anchor River at Anchor Point	Cook Inlet	Lat 59°46'21", long 151°50'05", in NW¼ SE¼ sec.4, T.5 S., R.15 W., Kenai Peninsula Borough, at old Sterling Highway Bridge at Anchor Point, 0.1 mi downstream from North Fork and 1.0 mi upstream from mouth.	224	‡1953-66	11-30-83 7-27-84 9- 4-84	P11.000 159 155
15243950 Porcupine Creek near Primrose	Kenai Lake	Lat 60°20'30", long 149°22'15", in NE¼ sec.24, T.3 N., R.1 W., Kenai Peninsula Borough, at 18-mi campground road, 0.2 mi upstream from mouth at Kenai Lake, and 0.8 mi west of Primrose.	16.8	c†1963-83	6- 8-84	224

† Operated as a crest-stage partial-record station.
‡ Operated as a continuous-record station.
c Published in Miscellaneous Measurement Table.
P Peak flow.

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Discharge measurements made at miscellaneous sites during water year 1984--Continued

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
		South-central Alaska--Continued				
Portage Creek at Portage Lake Outlet near Whittier	Cook Inlet	Lat 60°47'10", long 148°50'15", in SE¼ NE¼ sec.13, T.8 N., R.3 E., at outlet of Portage Lake and 5 mi west of Whittier.	39.7	--	8-19-84 8-23-84 9- 6-84	p12,500 2,610 623
15272530 California Creek at Girdwood	Glacier Creek	Lat 60°57'43", long 149°08'23", in NW¼ sec.17 T.10 N., R.2 E., Municipality of Anchorage, at culverts on Alyeska Highway, 0.25 mi west of Girdwood Post Office and 2.0 mi northeast of Seward-Anchorage Highway.	6.96	c†1968-78, †1979, c†1980, †1981-83	(Listed below)	

9-18-67	gp593	6-10-70	g61	7-31-72	g40	6-17-74	g43	6-13-77	g91
7- 2-68	gp72	10-31-70	g229	9- 1-72	g21	5-12-75	g71	6-14-78	g97
8- 4-68	g25	11- 1-70	g95	9- 8-72	g20	7-11-75	g109	6- 9-80	g112
5-12-69	g19	5-26-71	g21	10-20-72	g29	9-21-76	g268	7- 2-80	g80
8-27-69	g12	6-30-71	g92	5-12-73	g13	9-22-76	g165	6- 5-84	55
10- 8-69	g125	5-19-72	g18	7-23-73	g50	9-28-76	g108		
10-11-69	g157	6-30-72	g41	10- 5-73	g14	11-30-76	g116		

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Date	Discharge (ft^3/s)
+15272970 Little Survival Creek near Anchorage	Potter Marsh	Lat 61°04'04", long 149°47'55", in SW¼ sec.3, T.11 N., R.3 W., Municipality of Anchorage, at upstream culvert entrance on the Old Seward Highway, at mouth at Potter Marsh and 11 mi south of Anchorage Post Office	--	1983	4-20-83 4-26-84 5-31-84 6-29-84 7-31-84 8-15-84	g0.84 0.95 3.4 0.70 0.37 a0.10
15273102 Little Rabbit Creek below Old Seward Highway near Anchorage	Rabbit Creek	Lat 61°04'37", long 149°48'47", in NE¼ NE¼ sec.4, T.11 N., R.3 W., Municipality of Anchorage, 250 ft downstream from Old Seward Highway, 0.2 mi upstream from mouth, and 10 mi south of Anchorage Post Office.	5.94	‡1979-80, c1981-83	(Listed below)	

11- 1-83	6.0	1-31-84	0.86	4-26-84	3.6	7-31-84	3.5	8-15-84	6.4
11-27-83	4.6	2-28-84	1.1	5-30-84	14	8-15-84	2.8	8-15-84	12
1- 4-84	1.8	3-26-84	2.5	6-29-84	7.6	8-15-84	3.6	8-28-84	7.4

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Date	Discharge (ft^3/s)
+Cook Inlet tributary at Klatt Road at Anchorage	Cook Inlet	Lat 61°06'56", long 149°55'28", in SE¼ sec.23, T.12 N., R.4 W., below culvert at Klatt Road at Anchorage.	--	c1983	10-31-83	0.68
+Cook Inlet tributary near Klatt Road at Anchorage	Cook Inlet	Lat 61°07'11", long 149°53'52", in NE¼ sec.24, T.12 N., R.4 W., near Klatt Road at Anchorage.	--	c1983	10-31-83	0.91
Bayshore Lake tributary at Anchorage	Cook Inlet	Lat 61°07'16", long 149°56'17", in NW¼ sec.23, T.12 N., R.4 W., at culvert, at Bayshore Drive, at Anchorage.	--	c1983	10-31-83	e<0.01
+Bayshore Lake tributary at Bayshore Road at Anchorage	A lake in Bayshore subdivision	Lat 61°07'30", long 149°56'08", in SW¼ sec.14, T.12 N., R.4 W., below culvert at Bayshore Drive at Anchorage.	--	c1983	10-31-83	0.08
+Bayshore Lake tributary near Bayshore Elementary School at Anchorage	A lake in Bayshore subdivision	Lat 61°07'34", long 149°56'09", in SW¼ sec.14, T.12 N., R.4 W., near Bayshore Elementary School, on Bayshore Drive at Anchorage.	--	c1983	10-31-83	e0.01
+Campbell Lake tributary at Victor Road at Anchorage	Campbell Lake	Lat 61°07'58", long 149°55'10", in NW¼ sec.13, T.12 N., R.4 W., below culvert on east side of Victor Road at Anchorage.	--	c1983	10-31-83	0.08

† Operated as a crest-stage partial-record station.
‡ Operated as a continuous-record station.
+ See analyses of samples collected at miscellaneous sites.
a Approximately.
c Published in Miscellaneous Measurement Table.
e Estimated.
g Not previously published.
p Peak flow.

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Discharge measurements made at miscellaneous sites during water year 1984--Continued

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
		South-central Alaska--Continued				
15283500 Eska Creek near Sutton	Matanuska River	Lat 61°43'44", long 148°54'31", in NE¼ sec.21, T.19 N., R.3 E., Matanuska-Susitna Borough, 100 ft downstream from culverts on Eska-Jonesville Road and 1.5 mi northeast of Sutton.	13.4	c†1965-67, c†1971-83	9- 4-84	20
15285000 Wasilla Creek near Palmer	Cook Inlet	Lat 61°38'47", long 149°11'45", in SW¼ sec.13, T.18 N., R.1 E., Matanuska-Susitna Borough, 60 ft upstream from culvert entrance on Wasilla-Fishook Road, and 4.1 mi northeast of Palmer.	16.8	1971, c‡†1976-83	8-25-84	119
15285200 Wasilla Creek near Wasilla	Cook Inlet	Lat 61°34'09", long 149°18'50", in NE¼ NW¼ sec.17, T.17 N., R.1 E., Matanuska-Susitna Borough, 100 ft downstream from bridge at Parks Highway and 4.2 mi east of Wasilla.	39.5	c1954-55, c1971, †1976-77, c†1978-80, †1981-83	9-16-80	g243
					4-26-84	22
					8-25-84	107
15286500 Lucile Creek near Wasilla	Big Lake	Lat 61°33'44", long 149°46'31", in SE¼ sec.12, T.17 N., R.3 W., Matanuska-Susitna Borough, 500 ft downstream from former Parks Highway, 2.4 mi upstream from Lucile Creek, and 5.5 mi southwest of Houston.	--	1981-82	5- 9-84	1.8
					5-21-84	2.0
					6-11-84	0.89
					7- 9-84	2.4
					8- 7-84	1.2
					9- 4-84	0.95
					9-25-84	0.34
15290100 Little Susitna River near Houston	Cook Inlet	Lat 61°37'36", long 149°48'03", in NE¼ NW¼ sec.37, T.18 N., R.3 W., Matanuska-Susitna Borough, 300 ft downstream from bridge at Parks Highway and 1.6 mi east of Houston.	168	‡1978, ‡†1980-83	7- 5-84	478
					8-25-84	1210
					8-27-84	1200
15290200 Nancy Lake Tributary near Willow	Nancy Lake	Lat 61°41'17", long 149°57'58", in SE¼ SE¼ sec.34, T.19 N., R.4 W., Matanuska-Susitna Borough, 10 ft upstream from culvert at Parks Highway, 0.3 mi upstream from mouth and 4.5 mi southeast of Willow.	8.00	#‡1978-79, †1980, #‡1981, $#‡1983,	6-20-84	5.0
15291100 Raft Creek near Denali	Susitna River	Lat 63°03'04", long 147°16'22", in SE¼ sec.36, T.21 S., R.2 E., Matanuska-Susitna Borough, upstream from culverts at mi 69.2 Denali Highway and 10.7 mi southeast of Denali.	4.33	--	7-19-84	8.7
#Portage Creek near Gold Creek	Susitna River	Lat 62°50'00", long 149°22'35", 450 ft upstream from mouth at Susitna River, approximately 14 river mi upstream of Gold Creek and just below Devils Canyon.	--	c1982	5-30-84	597
					6-26-84	1440
					7-24-84	782
					9-27-84	392
#Indian River near Gold Creek	Susitna River	Lat 62°47'18", long 149°39'36", in NW¼ SW¼ sec.9, T.31 N., R.2 W., Matanuska-Susitna Borough, 0.3 mi upstream from mouth at Susitna River, about 2.0 mi upstream from Gold Creek.	--	--	5-30-84	339
					6-27-84	481
					7-25-84	388
					9-27-84	195
#15292100 Susitna River near Talkeetna	Cook Inlet	Lat 62°23'57", long 150°08'00", in NE¼ SE¼ sec.26, T.27 N., R.5 W., at mi 232 of the Alaska Railroad, 4 mi upstream from Chulitna River, 5.2 mi north of Talkeetna.	6,320	c†1982-83	10- 6-83	10,600
					6-13-84	24,900
					8-16-84	14,300
					8-26-84	37,300
					9-25-84	8,540
#15292410 Chulitna River below Canyon near Talkeetna	Susitna River	Lat 62°30'19", long 150°13'48", in SE¼ NE¼ sec.20, T.28 N., R.5 W., Matanuska-Susitna Borough, 4.5 mi downstream from Parks Highway crossing, 14 mi upstream from mouth, and 13 mi northwest of Talkeetna.	a2,590	c1982-83	6-14-84	20,200
					7-11-84	21,300
					8-17-84	21,500
					9-27-84	7,480
15292900 Goose Creek near Montana	Susitna River	Lat 62°03'42", long 150°03'20", in NW¼ NW¼ sec.29, T.23 N., R.4 W., 15 ft downstream from right culvert on Parks Highway crossing, 1.5 mi south of Montana, and 23 mi north of Wasilla.	--	†1963-71	7-17-84	126
					8- 9-84	120
					8-21-84	117
					8-27-84	320

† Operated as a crest-stage partial-record station.
‡ Low-flow partial-record station.
# See analyses of samples collected at water-quality partial-record stations.
a Approximately.
c Published in Miscellaneous Measurement Table.
g Not previously published.

Discharge measurements made at miscellaneous sites during water year 1984--Continued

Stream	Tributary to	Location	Drainage area (mi²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft³/s)
		South-central Alaska--Continued				
15292990 Sheep Creek near Willow	Susitna River	Lat 61°59'45", long 150°02'43", in NE¼ SW¼ sec.17, T.22 N., R.4 W., Matanuska-Susitna Borough, 175 ft downstream from Parks Highway bridge, 6.5 mi south of Montana, and 18 mi north of Willow.	--	#1972	7-17-84 8-21-84 8-25-84 9-27-84	285 228 1690 222
15293000 Caswell Creek near Caswell	Susitna River	Lat 61°56'55", long 150°03'14", in SW¼ sec.32, T.22 N., R.4 W., Matanuska-Susitna Borough, below culvert on Parks Highway and 2.3 mi south of Caswell.	19.6	c†1963-81, c†1983	7-16-84	23
15293700 Little Willow Creek near Kashwitna	Susitna River	Lat 61°48'37", long 150°05'42", in SW¼ NE¼ sec.24, T.20 N., R.5 W., 100 ft downstream from bridge at Parks Highway, 0.4 mi downstream from Rogers Creek, and 3.7 mi south of Kashwitna.	155	--	7- 5-84 8-25-84	244 1000
15294025 Moose Creek near Talkeetna	Kroto Creek	Lat 62°19'00", long 150°26'30", in NE¼ sec.30, T.26 N., R.7 W., Matanuska-Susitna Borough, at bridge on Petersville Road and 10.5 mi west of Talkeetna.	52.3	c†1972-80, c⨍†1981-83	8-21-84	174
Rolling Rock Creek	Kizhuyak River	Lat 56°41'40", long 152°54'00", in NW¼ sec.1, T.29 S., R.23 W., on Kodiak Island, 0.75 mi upstream from mouth and 12 mi south of Port Lions.	a2.1	c1979-83	10-12-83	4.5
Unnamed tributary	Hidden Basin Creek	Lat 57°35'38", long 153°00'53", in NW¼ sec.8, T.30 S., R.23 W., on Kodiak Island, just upstream from mouth and 20 mi south of Port Lions.	0.57	c1983	10-12-83 12- 2-83 12- 4-83	2.8 5.2 25
Unnamed tributary	Hidden Basin Creek	Lat 57°33'50", long 152°56'23", corrected, in NW¼ sec.22, T.30 S., R.23 W., on Kodiak Island, 100 ft downstream from confluence of north and east forks and 17 mi south of Kodiak.	8.46	c1983	10-13-83	29
15297475 Red Cloud Creek tributary near Kodiak	Red Cloud Creek	Lat 57°49'00", long 152°37'20", in SW¼ sec.24, T.27 S., R.21 W., Kodiak Island Borough, 0.1 mi upstream from mouth and 8.4 mi northwest of Kodiak.	1.51	†1963-83	6- 6-84	4.2
15297482 Falls Creek near Port Lions		Lat 57°40'08", long 152°56'00", Kodiak Island Borough, on Kodiak Island, in Kodiak National Wildlife Refuge, 0.5 mi upstream from Shotgun Creek, 1.6 mi upstream from mouth, and 14 mi south of Port Lions.	4.3	‡1980-83	10-12-83 12- 3-83	22 38
		Southwest Alaska				
15303150 Snake River near Dillingham		Lat 59°08'54", long 158°53'14", in NW¼ SW¼ sec.9, T.12 S., R.57 W., at outlet of Lake Nunavaugaluk, 15 mi northwest of Dillingham.	113	‡1973-83	10-10-83	776
		Yukon Alaska				
Twelvemile Creek near Miller House	Birch Creek	Lat 65°23'26", long 145°43'18", in NE¼ SE¼ sec.32, T.7 N., R.10 E., 0.2 mi upstream from mouth and 17 mi southeast of Miller House	--	c1983	6- 7-84	67
15392000 Birch Creek above Twelvemile Creek near Miller House	Yukon River	Lat 65°23'51", long 145°42'02", in NE¼ NW¼ sec.33, T.7 N., R.10 E., 1.0 mi upstream from Twelvemile Creek, 17 mi southeast of Miller House.	a88	‡1911-12 c1983	6- 5-64 8- 1-84	110 118

† Operated as a crest-stage partial-record station.
‡ Operated as a continuous record station.
⨍ Low-flow partial-record station.
See analyses of samples collected at water-quality partial-record stations.
a Approximately.
c Published in Miscellaneous Measurements Table.
g Not previously published.

Discharge measurements made at miscellaneous sites during water year 1984--Continued

Stream	Tributary to	Location	Drainage area (mi²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft³/s)
		Yukon Alaska--Continued				
Birch Creek 0.2 mi above Twelvemile Creek near Miller House	Yukon River	Lat 65°23'26", long 145°42'48", in NW¼ SW¼ sec.33, T.7 N., R.10 E., 0.2 mi up stream from Twelvemile Creek and 17 mi southeast of Miller House.	--	c1983	6- 7-84	131
15394000 Birch Creek below Twelvemile Creek near Miller House	Yukon River	Lat 65°22'50", long 145°43'50", in NW¼ NE¼ sec.5 T.6 N., R.10 E., 0.7 mi downstream from Twelvemile Creek and 18 mi southeast of Miller House.	141	‡1911-12 c1983	6- 7-84	185
Caribou Creek near Kantishna	Bearpaw River	Lat 63°40'10", long 150°55'59", in SW¼ SW¼ sec.30, T.14 S., R.17 W., 3.7 mi upstream from mouth, 4.3 mi south of Glacier, and 10 mi north of Kantishna.	--	c1983	9-17-84	63
Glacier Creek near Kantishna	Bearpaw River	Lat 63°38'14", long 150°58'31", in SW¼ SE¼ sec.2, T.15 S., R.18 W., 3.1 mi upstream from Flat Creek, 6.3 mi south of Glacier, and 7.8 mi north of Kantishna.	--	c1983	7- 2-84 9-15-84	6.8 22
Bearpaw River near Kantishna	Kantishna River	Lat 63°43'46", long 150°58'01", in NW¼ SW¼ sec.1, T.14 S., R.18 W., 0.5 mi downstream from Glacier Creek, and 14.1 mi north of Kantishna.	--	--	6-30-84 8-11-84	312 494
Moose Creek above North Fork Moose Creek near Kantishna	Bearpaw River	Lat 63°31'05", long 150°43'44", in NE¼ NW¼ sec.19, T.16 S., R.16 W., 800 ft upstream from North Fork Moose Creek and 7.1 mi east of Kantishna.	--	1983	6-30-83 7-29-83 9-16-83 7- 2-84 8-13-84 9-14-84	g33 g81 g114 48 75 80
North Fork Moose Creek above Willow Creek near Kantishna	Moose Creek	Lat 63°32'05", long 150°39'16", in NW¼ NE¼ sec.16, T.16 S, R.16 W., 0.10 mi upstream from Willow Creek and 9.4 mi east of Kantishna.	--	c1983	7-21-84	184
Glen Creek near Kantishna	North Fork Moose Creek	Lat 63°31'55", long 150°42'19", in SW¼ SW¼ sec.17, T.16 S., R.16 W., 0.25 mi upstream from mouth and 7.8 mi east of Kantishna	--	c1983	8-13-84 9-14-84	17 17
North Fork Moose Creek near mouth near Kantishna	Moose Creek	Lat 63°31'09", long 150°43'48", in NE¼ NW¼ sec.19, T.16 S., R.16 W., 0.10 mi upstream from mouth and 7.0 mi east of Kantishna	--	c1983	8-13-84 9-13-84	106 89
Jumbo Creek near Kantishna	Moose Creek	Lat 63°30'47", long 150°46'16", in NW¼ SW¼ sec.24, T.16 S., R.17 W., 0.10 mi upstream from mouth and 5.8 mi east of Kantishna	--	c1983	8-13-84	9.2
Moose Creek near Kantishna	Bearpaw River	Lat 63°30'59", long 150°54'27", in SE¼ NE¼ sec.19, T.16 S., R.17 W., at upstream side of bridge, 30 ft downstream from mouth of Lake Creek, and 1.7 mi east of Kantishna	--	†1966, c1983	6-30-84 7-21-84 8-12-84 9-15-84	181 489 250 207
Moose Creek below Friday Creek near Kantishna	Bearpaw River	Lat 63°32'24", long 150°59'29", in NW¼ SW¼ sec.11, T.16 S., R.18 W., 0.1 mi downstream from Friday Creek and 1.5 mi northwest of Kantishna	--	c1983	7-24-84 8-13-84 9-15-84	266 246 235
Moose Creek below Lower Canyon near Kantishna	Bearpaw River	Lat 63°38'35", long 151°03'15", in NE¼ SW¼ sec.4, T.15 S., R.18 W., 6 mi downstream from Lower Canyon and 9 mi north of Kantishna	--	c1983	7- 1-84 8-12-84	180 287
15478010 Rock Creek near Paxson	Tangle Lakes	Lat 63°04'16", long 146°06'17", in NW¼ sec.30, T.21 S., R.9 E., 25 ft upstream from bridge at mi 24.8 of the Denali Highway and 18 mi west of Paxson.	50.3	c†1963-83	8-23-84	52

† Operated as a crest-stage partial-record station.
‡ Operated as a continuous record station.
a Approximately.
c Published in Miscellaneous Measurements Table.
g Not previously published.

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Discharge measurements made at miscellaneous sites during water year 1984--Continued

Stream	Tributary to	Location	Drainage area (mi²)	Measured previously (water years)	Measurements	
					Date	Discharge (ft³/s)
		Yukon Alaska--Continued				
15515800 Seattle Creek near Cantwell	Nenana River	Lat 63°19'32", long 148°14'49", on line between sec.25 and 26, T.18 S., R.4 W., Matanuska-Susitna Borough, at bridge at mi 110.9 Denali Highway and 22.4 mi southeast of Cantwell.	36.2	c†1964-65, ‡1966-75, c†1977-83	8-22-84	49
15516200 Slime Creek near Cantwell	Nenana River	Lat 63°30'36", long 148°48'39", in SE¼ sec.24, T.16 S., R.7 W., upstream from culvert on Parks Highway and 9.1 mi northeast of Cantwell.	6.90	c†1966-83	7-30-84	45
		Northwest Alaska				
15585000 Goldengate Creek near Nome	Norton Sound	Lat 64°26'03", long 165°02'46", in SW¼ sec.15, T.12 S., R.32 W., 500 ft upstream from culvert on Nome-Council Road and 11 mi southeast of Nome.	1.55	c†1965-66, c†1976-83	7-26-84 9- 5-84	no flow no flow
15624998 Arctic Creek above tributary near Nome	Cripple Creek	Lat 64°38'16", long 165°42'42", in NE¼ sec.8, T.10 S., R.35 W., 300 ft upstream from Nome-Teller Road crossing, about 125 ft upstream from tributary entering left bank, 2 mi upstream from mouth, and 13 mi northwest of Nome.	1.13	†1975, c†1979-83	10- 4-83 9- 5-84	6.8 3.1
15625000 Arctic Creek near Nome	Cripple Creek	Lat 64°38'13", long 165°42'46", in NE¼ sec.8, T.10 S., R.35 W., 20 ft upstream from culvert on Nome-Teller Road, 2 mi upstream above Bluff Creek, and 13 mi northwest of Nome.	1.76	c†1969-78, c1983	10- 4-83	12
15633000 Washington Creek near Nome	Sinuk River	Lat 64°42'52", long 165°49'13", in NW¼ sec.14, T.9 S., R.35 W., 400 ft upstream from culvert on Nome-Teller Road and 19 mi northwest of Nome. (Gage moved July 12, 1979.)	6.34	c†1964-66, c†1968-78, c†1980-83	10- 4-83	21
15668100 Star Creek near Nome	Pilgrim River	Lat 64°55'40", long 164°57'39", in NW¼ sec.33, T.6 S., R.31 W., upstream from culvert at mi 40.5 Nome-Taylor road, 0.9 mi upstream from mouth, and 32 mi northeast of Nome.	3.78	c†1964-83	10- 3-83	8.6

‡ Operated as a continuous record station.
† Operated as a continuous-record station.
c Published in Miscellaneous Measurements Table.

Montana Creek seepage investigation - Juneau

A series of discharge measurements were made March 5, 1984 on Montana Creek, tributary to the Mendenhall River near Auke Bay, to study channel gains and losses. The reach extends from 80 ft downstream from the highway bridge, 1.4 mi upstream from the mouth at Mendenhall River, to 250 ft above the mouth, 1.8 mi east of Auke Bay. The measurements were made during a steady, low flow period.

River Miles	Location	Meas. disch. (ft³/s)	Gain or loss
1.4	Lat 58°23'53", long 134°36'34", in SE¼SW¼, sec.13, T.40 S., R.65 E.......	63	--
1.2	Lat 58°23'41", long 134°36'21", in SE¼SW¼, sec.13, T.40 S., R.65 E.......	57	-6
0.9	Lat 58°23'26", long 134°36'16", in SW¼NE¼, sec.24, T.40 S., R.65 E.......	56	-1
0.4	Lat 58°23'09", long 134°36'07", in NW¼SE¼, sec.24, T.40 S., R.65 E.......	58	+2
0.2	Lat 58°23'04", long 134°35'58", in NW¼SE¼, sec.24, T.40 S., R.65 E.......	61	+3
0.05	Lat 58°22'56", long 134°35'50", in SE¼SE¼, sec.24, T.40 S., R.65 E.......	59	-2
	Overall net loss...		-4

Mendenhall River seepage investigation - Juneau

A series of discharge measurements were made March 5, 1984 on the Mendenhall River, which drains into Fritz Cove, 10 miles northwest of Juneau, to study channel gains and losses. The reach is 5.8 mi in length and extends from the outlet of Mendenhall Lake to the mouth of the Mendenhall River, 3.1 mi northeast of Auke Bay. The measurements were made during a period of steady, low flow.

River Miles	Location	Meas. disch. (ft³/s)	Gain or loss
5.8	Lat 58°24'42", long 134°34'30", in SW¼SE¼, sec.7, T.40 S., R.66 E........	71	--
5.3	Lat 58°24'18", long 134°34'30", in SW¼NE¼, sec.18, T.40 S., R.66 E.......	71	0
5.0	Lat 58°24'18", long 134°34'46", in SE¼NW¼, sec.18, T.40 S., R.66 E.......	81	+10
4.7	Lat 58°24'05", long 134°35'02", in SE¼NW¼, sec.18, T.40 S., R.66 E.......	81	0
4.5	Lat 58°23'57", long 134°34'59", in NE¼SW¼, sec.18, T.40 S., R.66 E.......	93	+12
4.3	Lat 58°23'51", long 134°35'05", in SE¼SW¼, sec.18, T.40 S., R.66 E.......	101	+8
4.0	Lat 58°23'42", long 134°35'05", in SE¼SW¼, sec.18, T.40 S., R.66 E.......	95	-6
3.5	Lat 58°23'22", long 134°35'30", in SE¼NE¼, sec.24, T.40 S., R.65 E.......	88	-7
3.0	Lat 58°23'07", long 134°35'28", in NW¼SW¼, sec.19, T.40 S., R.66 E.......	105	+17
2.7	Lat 58°22'52", long 134°35'34", in SE¼SE¼, sec.24, T.40 S., R.65 E., upstream from Montana Creek..	97	-8
1.9	Lat 58°22'28", long 134°35'43", in SE¼NE¼, sec.25, T.40 S., R.65 E., 0.7 mi downstream from Montana Creek..................................	187	+90
1.6	Lat 58°22'12", long 134°36'02", in NW¼S[illegible]¼, sec.25, T.40 S., R.65 E.......	175	-12
0.9	Lat 58°21'42", long 134°35'50", in SE¼NE¼, sec.36, T.40 S., R.65 E.......	191	+16
	Overall net gain...		+120

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LAKE-LEVEL MEASUREMENTS OF SELECTED LAKES

SOUTH-CENTRAL ALASKA

Measurements of lake levels of selected lakes are given in the following table. Data are being collected at these lakes to define lake level changes from seasonal variations, the effects of man, response to droughts and response to changes in the ground-water system. Lake levels are referenced to an arbitrary gage datum and may not be at National Geodetic Vertical Datum.

Lake	Tributary to	Location	Surface area (acres)	Measured previously (water year)	Measurements	
					Date	Lake Level (ft)
		Kenai Peninsula Borough				
Shadura	Closed lake in Beaver Creek basin	Lat 60°42'17", long 151°00'12", in NE¼ sec.15, T.7 N., R.10 W., at north shore, 13 mi northeast of Kenai.	258	1970-71, 1976-83	5-21-84	16.80
Konovalof	Closed lake in Beaver Creek basin	Lat 60°39'49", long 151°09'52", in SW¼ sec.26, T.7 N., R.11 W., at south shore of island near north shore of lake, 8.5 mi northeast of Kenai.	256	1970-71, 1976-83	5-21-84	17.24
Kidney	Closed lake	Lat 60°39'48", long 151°15'35", in SW¼ sec.29, T.7 N., R.11 W., at east shore, 0.2 mi north of Lamplighter Holt Road, and 7.5 mi north of Kenai.	71	d1970-72, d1974-76, 1977-83	10- 4-83 5-15-84	104.13 103.81
Cabin	Closed lake	Lat 60°40'30", long 151°19'15", in NE¼ sec.26, T.7 N., R.12 W., at east shore, 0.2 mi west of Miller Loop Road, and 8.5 mi north of Kenai.	53	d1970-72, d1974-76, 1977-83	10- 4-83 5-15-84	95.54 94.68
Island	Closed lake	Lat 60°42'19", long 151°19'05", in SE¼ sec.11, T.7 N., R.12 W., at west shore, 0.1 mi east of Island Lake Road, and 10.7 mi north of Kenai.	272	d1970-72, d1974-76, 1977-83	10- 4-83 5-15-84	99.34 98.63
Dog Bone	Closed lake	Lat 60°41'42", long 151°17'35", in SE¼ sec.13, T.7 N., R.12 W., at the western shore, 0.9 mi east of Island Lake Road, and 9.7 mi north of Kenai.	27	d1970-72 d1974-76 1977	5-15-84	101.77
Unnamed Lake	Closed lake	Lat 60°40'56", long 151°20'54", in SW¼ sec.23, T.7 N., R.12 W., at south shore, 0.4 mi north of Miller Loop Road, and 9.4 mi north of Kenai.	8.6	d1970-72, d1974-76, 1977-83	10- 4-83 5-15-84	95.90 95.38
Bernice	Bernice Creek	Lat 60°41'33", long 151°21'48", in SW¼SE¼ sec.15, T.7 N., R.12 W., at campground on south shore and 10 mi northwest of Kenai. (Station number 15266895.)	150	d1970-72, d1974-76, ‡1977-79 1980-83	10- 4-83 5-15-84	76.23 75.97
Douglas	Closed lake	Lat 60°40'27", long 151°13'20", in NW¼ sec.28, T.7 N., R.11 W., at north shore, 0.8 mi east of Lamplighter Holt Road, and 8.3 mi north of Kenai.	90	d1970-72, d1974-76, 1977-83	10- 4-83 5-15-84	108.52 108.42
Wik (formerly Wick)	Closed lake	Lat 60°43'06", long 151°14'35", in NE¼ sec.8, T.17 N., R.11 W., at north shore, 0.2 mi south of Lamplighter Holt Road, and 11.4 mi north of Kenai.	173	d1970-72, d1974-76, 1977-83	10- 4-83 5-15-84	107.29 106.77
Georgine (formerly Laura)	Closed lake	Lat 60°43'44", long 151°13'15", in NW¼ sec.4, T.7 N., R.11 W., at northwest shore, 0.3 mi southeast of Halbouty Road, and 12.1 mi north of Kenai.	41	d1970-72, d1974-76, 1977-83	10- 4-83 5-15-84	107.78 107.35
Daniels	Bishop Creek	Lat 60°44'25", long 151°10'27", in SW¼ sec.34, T.8 N., R.11 W., at northwest shore, 1.2 mi east of North Kenai Road, and 13 mi north of Kenai.	602	d1970-72, d1976, 1977-83	10- 4-83 5-15-84	85.90 85.94
		Municipality of Anchorage				
Sand	Closed lake	Lat 61°09'03", long 149°58'25", in NW¼ sec.10, T.12 N., R.4 W., at west shore, and 4.0 mi southwest of Spenard. (Station number 15274700.)	78	*1967-74, 1975-83	10-11-83 10-21-83 5-24-84 5-30-84 6-21-84 7-24-84 8-27-84 9-20-84	86.84 86.80 88.11 87.18 87.04 86.69 86.66 86.68
Little Campbell	Closed lake	Lat 61°09'49", long 150°01'20", in NE¼ sec.5, T.12 N., R.4 W., in Kincaid Park near Anchorage International Airport, at the northeast shore, and 11.9 mi southwest of Spenard.	11	1975, 1977-81, 1983	10-11-84 5-30-84	68.59 68.72

* Operated as a daily stage station during open water with occasional readings during rest of year.

‡ Operated as a continuous-record stage station.

d Published at different datum. Converted to National Geodetic Vertical Datum, which is current datum.

LAKE-LEVEL MEASUREMENTS OF SELECTED LAKES--Continued

SOUTH-CENTRAL ALASKA

Lake	Tributary to	Location	Surface area (acres)	Measured previously (water year)	Measurements Date	Measurements Lake Level (ft)
		Municipality of Anchorage--Continued				
Conners	Closed lake	Lat 61°10'03", long 149°55'44", in SE¼ sec.35, T.13 N., R.4 W., near Anchorage International Airport, at southeast shore, and 2.8 mi southwest of Spenard.	33	1973-75, 1979-81, 1983	8-25-75 9-26-77 9-19-79 9-29-80 9-21-81 10- 5-82 10-11-83 5-31-84 7-26-84	r74.56 r74.03 r74.99 r76.53 r76.49 r76.46 75.51 75.40 75.15
Jewel	Closed lake	Lat 61°08'23", long 149°57'41", in SE¼ sec.10, T.12 N., R.4 W., at public swimming area on northeast shore and 4.2 mi southwest of Spenard.	27	1974-75, 1977-81, 1983	10-11-83 5-30-84	91.10 91.48
Sundi	Closed lake	Lat 61°08'50", long 149°57'55", in NE¼ sec.10, T.12 N., R.4 W., at northeast shore and 3.9 mi southwest of Spenard.	8.8	1974-75, 1977-81 1983	10-11-83 5-30-84	90.46 90.74
Delong	Closed lake	Lat 61°09'47", long 149°57'20", in NE¼ sec.3, T.12 N., R.4 W., near Anchorage International Airport, at southeast shore, and 2.8 mi southwest of Spenard.	18	1973, 1977-81 1983	10-11-83 5-31-84	75.25 75.38
Goose	Closed lake	Lat 61°11'48", long 149°49'06", in SE¼ sec.21, T.12 N., R.3 W., at north shore and 2.9 mi southeast of Anchorage Post Office	18	d1958-64, d1969-72, d1975, 1977-81 1983	10-11-83 5-29-84	18.98 19.38
Lake Otis	Closed lake	Lat 61°11'27", long 149°50'18", in NE¼ sec.29, T.13 N., R.2 W., at southeast shore and 2.6 mi southeast of Anchorage Post Office.	9.0	‡1958-59, 1969-73, 1975, 1977-81, 1983	10-11-83 5-29-84	16.62 16.93
		Matanuska-Susitna Borough				
Canoe	Closed lake	Lat 61°33'22", long 149°11'42", in NW¼NE¼ sec.24, T.17 N., R.1 E., at southwest shore, west of Glenn Highway, and 4.5 mi southwest of Palmer.	--	--	6- 4-84	2.72
Kepler	Closed lake	Lat 61°33'11", long 149°11"56", in NW¼NW¼ sec.24, T.17 N., R.1 E., at east shore, north of Glenn Highway, and 5.0 mi southwest of Palmer.	--	--	6- 4-84	11.18
Finger	Closed lake	Lat 61°36'47", long 149°15'32", in NW¼ sec.34, T.18 N., R.1 E., at northeast shore, north of Wasilla Road and 4.5 mi west of Palmer.	--	1978, 1981-83	10-19-83 5-31-84	12.95 12.76
Kings	Closed lake	Lat 61°37'13", long 149°21'35", in SW¼ sec.25, T.18 N., R.1 W., at northwest shore at King's Lake Camp and 4 mi northeast of Wasilla.	--	1978, 1981-83	10-19-83 5-31-84	19.14 18.76
Memory	Closed lake	Lat 61°37'52", long 149°25'37", in SE¼ sec.22, T.18 N., R.1 W., at northwest shore at the Menard residence (Laze C&L Ranch) and 3.5 mi northeast of Wasilla.	--	1978, 1981-83	10-19-83 5-31-84	6.94 6.53
Rocky	Closed lake	Lat 61°33'27", long 149°49'49", in SW¼ sec.16, T.17 N., R.3 W., at southwest shore in Rocky Lake Wayside, north of Big Lake, and 5.5 mi south of Houston.	--	1978, 1981-83	10-19-83 6- 4-84	10.00 9.70
Lucile	Lucile Creek	Lat 61°34'28", long 149°29'45", in NE¼SW¼ sec.8, T.17 N., R.1 W., on west shore, above weir, near outlet at Wasilla.	--	--	6- 9-84	9.34
Big	Fish Creek	Lat 61°32'04", long 149°49'30", in SE¼ sec.28, T.17 N., R.3 W., head of Fish Creek at lake outlet, on left bank upstream from square notched weir upstream from bridge on Big Lake Road, and 13 mi southwest of Wasilla. (Station number 15287000.)	3,104	1972-83	10-19-83 6- 4-84	10.56 10.28

‡ Operated as a continuous-record stage station.
d Published at different datum. Converted to National Geodieic Verticle Datum, which is current datum.
r Published at different datum. Figures revised to current datum.

LAKE-LEVEL MEASUREMENTS OF SELECTED LAKES--Continued

SOUTH-CENTRAL ALASKA

Lake	Tributary to	Location	Surface area (acres)	Measured previously (water year)	Measurements	
					Date	Lake Level (ft)
		Matanuska-Susitna Borough--Continued				
Marion	Closed lake	Lat 61°30'42", long 149°55'05", in NW¼ sec.1, T.16 N., R.4 W., at northwest shore, west of Big Lake Road and south of Big Lake, and 7.5 mi northwest of Knik.	--	1978, 1981-83	10-19-83 5-31-84	7.07 7.21
Lost	Closed lake	Lat 61°20'36", long 149°58'55", in SW¼ sec.34, T.15 N., R.4 W., on north end of lake, 2.5 mi west of Knik Arm of Cook Inlet, and 6 mi north of Point MacKenzie.	--	1981-83	5-21-84	17.86
Twin Island	Closed lake	Lat 61°19'25", long 150°00'35", in NW¼ sec.9, T.14 N., R.4 W.; on northeast shore, 3 mi west of Knik Arm of Cook Inlet, and 5.2 mi north of Point MacKenzie.	--	1981-83	5-21-84	15.48
Lorraine	Closed lake	Lat 61°17'43", long 149°56'48", in NW¼ sec.23, T.14 N., R.4 W., on northeast shore, 1 mi west of Knik Arm of Cook Inlet, and 2.5 mi north of Point MacKenzie.	--	1981-83	5-21-84	3.76
Horseshoe	Little Susitna River	Lat 61°21'50", long 150°09'20", in NW¼ sec.27, T.15 N., R.5 W., at the northwest shore at Oren Hudson's cabin and 15 mi northwest of Anchorage.	--	1978, 1981-83	5-21-84	4.87
Lynne	Closed lake	Lat 61°42'41", long 150°01'52", in NE¼ sec.29, T.19 N., R.4 W., at northeast shore, northeast of Nancy Lake, and 2.5 mi southeast of Willow.	--	1978, 1981-83	10-19-83 6- 4-84	11.50 11.30
Nancy	Lake Creek	Lat 61°42'09", long 150°00'20", in SE¼ sec.28, T.18 N., R.4 W., at northeast shore and 3 mi south of Willow.	--	1978, 1981-83	10-19-83 6- 4-84	7.90 6.64
Twelvemile	Closed lake	Lat 61°46'19", long 149°42'42", in NW¼ sec.6, T.19 N., R.2 W., at northeast shore, south of Willow Creek Road and 11 mi east of Willow.	--	1978, 1981-83	10-19-83 6- 4-84	19.49 19.22
Willow	Closed lake	Lat 61°44'39", long 150°03'08", in NW¼ sec.17, T.19 N., R.4 W., at southeast shore and 0.5 mi west of Willow.	--	1978, 1981-83	10-19-83 6- 4-84	13.10 12.76

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ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

SOUTH-CENTRAL ALASKA

15273100 L RABBIT C NR ANCHORAGE AK

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS) (00061)	SPECIFIC CONDUCTANCE (UMHOS) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE (DEG C) (00010)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
JUN								
29...	1100	7.6	94	7.7	8.0	753	11.0	94
JUL								
31...	1130	3.6	126	8.2	10.0	761	10.9	96
AUG								
28...	1440	7.4	71	8.4	5.5	761	12.0	95

15274820 SB SF CHESTER C TR NR BAXTER RD AT ANCHORAGE AK

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS) (00061)	SPECIFIC CONDUCTANCE (UMHOS) (00095)	PH LAB (STANDARD UNITS) (00403)	HARDNESS (MG/L AS CACO3) (00900)	HARDNESS, NONCARBONATE (MG/L CACO3) (00902)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	ALKALINITY LAB (MG/L AS CACO3) (90410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)
MAR												
09...	1630	.06	750	7.2	46	10	16	1.4	120	4.5	36	8.4
11...	1515	.10	520	7.4	42	21	14	1.6	77	4.5	21	11
12...	1410	.09	380	6.7	26	2	8.8	.96	58	4.0	24	9.3
13...	1345	.04	390	6.8	30	0	10	1.1	54	5.0	30	11
14...	1335	.05	280	7.4	23	0	7.7	.81	38	3.9	28	9.8

DATE	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL) (01105)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)
MAR												
09...	210	<.10	1.5	396	380	11000	<10	19000	150	160	280	.05
11...	130	<.10	2.6	260	250	8800	<10	15000	180	200	227	.06
12...	90	<.10	--	184	--	7000	<10	12000	600	100	199	.05
13...	83	.10	2.0	185	180	4100	<10	7400	91	70	113	.01
14...	59	.10	2.0	--	140	8400	<10	14000	170	130	208	.03

15275055 CHESTER C TR NR 36TH AVE AT ANCHORAGE AK

DATE	TIME	STREAM-FLOW, INSTANTANEOUS (CFS) (00061)	SPECIFIC CONDUCTANCE (UMHOS) (00095)	PH LAB (STANDARD UNITS) (00403)	HARDNESS (MG/L AS CACO3) (00900)	HARDNESS, NONCARBONATE (MG/L CACO3) (00902)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	ALKALINITY LAB (MG/L AS CACO3) (90410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)
MAR												
07...	1330	E1.0	--	7.3	82	46	30	1.8	180	3.3	36	11
09...	1610	.58	825	7.1	67	39	24	1.6	120	2.8	28	8.9
11...	1540	.85	585	7.3	44	18	16	1.1	85	2.2	27	6.8
12...	1430	.62	740	6.5	120	100	48	1.1	72	3.4	25	6.1
13...	1405	.35	550	6.5	47	17	17	1.2	80	2.3	30	9.3
14...	1300	.31	750	6.8	110	76	42	1.2	82	3.2	34	8.6

DATE	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL) (01105)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)
MAR												
07...	330	<.10	1.5	--	580	53000	10	86000	690	1400	1790	--
09...	220	<.10	1.3	372	400	26000	<10	46000	750	700	883	1.4
11...	160	<.10	1.3	297	290	25000	<10	43000	560	620	814	1.9
12...	190	<.10	1.3	388	340	24000	<10	42000	1300	640	790	1.3
13...	130	<.10	1.8	276	260	29000	<10	47000	2500	680	909	.96
14...	200	<.10	1.7	400	360	32000	<10	51000	940	750	1000	.84

E ESTIMATED

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

SOUTH-CENTRAL ALASKA--Continued

625000149223500 - PORTAGE C NR GOLD CREEK AK

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM (70332)	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM (70333)	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM (70334)	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM (70335)	SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM (70336)
MAY 30...	1600	597	4	6.4	68	--	--	--	--	--
JUN 26...	1700	1440	4	16	25	35	45	50	62	100
JUL 24...	1510	782	3	6.3	75	88	93	99	100	--
SEP 27...	1430	392	7	7.4	87	--	--	--	--	--

624718149393600 - INDIAN R NR GOLD CREEK AK

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM (70332)	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM (70333)	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM (70334)	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM (70335)
MAY 30...	1940	339	3	2.7	--	--	--	--	--
JUN 27...	1000	481	2	2.6	36	55	80	94	100
JUL 25...	0900	388	3	3.1	56	74	88	100	--
SEP 27...	1300	195	3	1.6	70	--	--	--	--

15292100 SUSITNA R NR TALKEETNA AK

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061) 1/	TEMPER-ATURE (DEG C) (00010)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SED. SUSP FALL DIAM. % FINER THAN .002 MM (70337)	SED. SUSP. FALL DIAM. % FINER THAN .004 MM (70338)	SED. SUSP. FALL DIAM. % FINER THAN .008 MM (70339)
OCT 06...	1045	10600	.5	23	658	--	--	--
MAY 16...	1200	15800	2.0	460	19600	11	14	--
JUN 13...	1400	25900	10.5	279	19500	--	--	--
JUL 09...	1500	22400	2.5	323	19500	31	37	--
30...	1610	30900	--	458	38200	16	20	--
AUG 16...	1200	15200	12.0	220	9030	44	50	55
26...	1445	41000	7.5	732	81000	10	11	14
SEP 13...	1130	9380	7.5	27	684	--	--	--
25...	1340	8420	6.0	14	318	--	--	--

DATE	SED. SUSP. FALL DIAM. % FINER THAN .016 MM (70340)	SED. SUSP. FALL DIAm. % FINER THAN .031 MM (70341)	SED. SUSP. FALL DIAM. % FINER THAN .062 MM (70342)	SED. SUSP. FALL DIAM. % FINER THAN 125 MM (70343)	SED. SUSP. FALL DIAM. % FINER THAN .250 MM (70344)	SED. SUSP. FALL DIAM. % FINER THAN .500 MM (70345)	SED. SUSP. FALL DIAM. % FINER THAN 1.00 MM (70346)
OCT 06...	--	--	32	36	53	98	100
MAY 16...	23	--	48	61	83	100	--
JUN 13...	--	--	29	43	66	96	100

1/Discharges were computed from stage-discharge relations

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

SOUTH-CENTRAL ALASKA--Continued

15292100 SUSITNA R NR TALKEETNA AK--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	SED. SUSP. FALL DIAM. % FINER THAN .016 MM (70340)	SED. SUSP. FALL DIAM. % FINER THAN .031 MM (70341)	SED. SUSP. FALL DIAM. % FINER THAN .062 MM (70342)	SED. SUSP. FALL DIAM. % FINER THAN .125 MM (70343)	SED. SUSP. FALL DIAM. % FINER THAN .250 MM (70344)	SED. SUSP. FALL DIAM. % FINER THAN .500 MM (70345)	SED. SUSP. FALL DIAM. % FINER THAN 1.00 MM (70346)
JUL							
09...	55	--	74	80	91	100	--
30...	29	--	47	58	82	98	100
AUG							
16...	65	75	81	86	93	100	--
26...	21	32	43	58	85	98	--
SEP							
13...	--	--	71	76	89	100	--
25...	--	--	69	73	85	100	--

15292410 CHULITNA R BL CANYON NR TALKEETNA AK

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061) [1]	TEMPER-ATURE (DEG C) (00010)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SED. SUSP. FALL DIAM. % FINER THAN .002 MM (70337)	SED. SUSP. FALL DIAM. % FINER THAN .004 MM (70338)	SED. SUSP. FALL DIAM. % FINER THAN .008 MM (70339)
OCT								
05...	1125	9170	1.5	200	4950	18	21	--
MAY								
18...	0920	9220	--	580	14400	8	10	14
JUN								
11...	1450	16100	8.5	571	24800	24	31	41
14...	1230	19200	6.5	895	46400	23	27	34
JUL								
11...	1620	20200	8.0	1010	55100	30	42	47
31...	1255	22900	6.0	921	56900	29	35	41
AUG								
17...	1200	20300	6.0	931	51000	30	35	42
28...	1205	18100	4.0	556	27200	20	22	29
SEP								
14...	1135	11100	4.0	388	11600	18	23	34
27...	1230	7050	4.0	133	2530	32	38	44

DATE	SED. SUSP. FALL DIAM. % FINER THAN .016 MM (70340)	SED. SUSP. FALL DIAM. % FINER THAN .031 MM (70341)	SED. SUSP. FALL DIAM. % FINER THAN .062 MM (70342)	SED. SUSP. FALL DIAM. % FINER THAN .125 MM (70343)	SED. SUSP. FALL DIAM. % FINER THAN .250 MM (70344)	SED. SUSP. FALL DIAM. % FINER THAN .500 MM (70345)	SED. SUSP. FALL DIAM. % FINER THAN 1.00 MM (70346)
OCT							
05...	30	--	39	48	67	99	100
MAY							
18...	22	32	46	60	74	96	100
JUN							
11...	51	59	68	76	86	91	100
14...	42	49	56	69	78	96	99
JUL							
11...	58	65	70	75	83	94	100
31...	49	58	64	71	82	98	100
AUG							
17...	52	63	70	77	87	97	100
28...	37	46	56	64	80	94	97
SEP							
14...	43	52	62	70	83	99	100
27...	50	60	66	69	77	98	100

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[1] Discharges were computed from stage-discharge relations

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

SOUTH-CENTRAL ALASKA--Continued

15292439 SUSITNA R (RT CH) BL CHULITNA R NR TALKEETNA AK

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	TEMPER-ATURE (DEG C) (00010)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SED. SUSP. FALL DIAM. % FINER THAN .002 MM (70337)	SED. SUSP. FALL DIAM. % FINER THAN .004 MM (70338)	SED. SUSP. FALL DIAM. % FINER THAN .008 MM (70339)
OCT								
05...	1505	E16000	1.5	166	--	--	--	--
MAY								
18...	1215	E18000	3.0	646	--	10	14	18
JUN								
12...	1610	23600	10.5	707	45100	18	25	33
JUL								
10...	1635	29200	6.5	1070	84400	31	39	49
30...	1515	35500	6.5	975	93500	--	--	--
AUG								
15...	1600	E27000	--	839	--	26	37	45
27...	1340	29000	5.0	831	65100	16	20	24
SEP								
12...	1210	16700	6.5	209	9420	27	30	38
26...	1330	12600	6.0	159	5410	17	20	--

DATE	SED. SUSP. FALL DIAM. % FINER THAN .016 MM (70340)	SED. SUSP. FALL DIAM. % FINER THAN .031 MM (70341)	SED. SUSP. FALL DIAM. % FINER THAN .062 MM (70342)	SED. SUSP. FALL DIAM. % FINER THAN .125 MM (70343)	SED. SUSP. FALL DIAM. % FINER THAN .250 MM (70344)	SED. SUSP. FALL DIAM. % FINER THAN .500 MM (70345)	SED. SUSP. FALL DIAM. % FINER THAN 1.00 MM (70346)
OCT							
05...	--	--	30	37	50	98	100
MAY							
18...	24	38	54	69	83	97	100
JUN							
12...	40	46	52	60	73	97	100
JUL							
10...	59	66	72	77	86	99	100
30...	--	--	57	--	--	--	--
AUG							
15...	57	70	81	87	94	99	100
27...	28	41	55	67	83	97	100
SEP							
12...	45	53	60	64	75	97	100
26...	28	--	37	44	57	93	98

DATE	TIME	SAMPLE LOC-ATION, CROSS SECTION (FT FM L BANK) (00009)	BED MAT. SIEVE DIAM. % FINER THAN .250 MM (80166)	BED MAT. SIEVE DIAM. % FINER THAN .500 MM (80167)	BED MAT. SIEVE DIAM. % FINER THAN 1.00 MM (80168)	BED MAT. SIEVE DIAM. % FINER THAN 2.00 MM (80169)	BED MAT. SIEVE DIAM. % FINER THAN 4.00 MM (80170)	BED MAT. SIEVE DIAM. % FINER THAN 8.00 MM (80171)	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM (80172)	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM (80173)	BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM (80174)	BED MAT. SIEVE DIAM. % FINER THAN 128 MM (80175)
OCT												
07...	1110	3830	--	--	--	--	--	0	1	22	100	--
07...	1120	3980	0	2	8	10	10	11	12	12	12	100
07...	1130	4060	0	7	39	50	53	57	68	80	83	100

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ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

SOUTH-CENTRAL ALASKA--Continued

15292440 SUSITNA R (LT CH) BL CHULITNA R NR TALKEETNA AK--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	TEMPER-ATURE (DEG C) (00010)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SED. SUSP. FALL DIAM. % FINER THAN .002 MM (70337)	SED. SUSP. FALL DIAM. % FINER THAN .004 MM (70338)	SED. SUSP. FALL DIAM. % FINER THAN .008 MM (70339)
OCT								
05...	1445	E6200	1.5	44	--	--	--	--
MAY								
17...	1740	E9000	--	339	--	--	--	--
JUN								
12...	1540	16200	11.5	215	9400	--	--	--
JUL								
10...	1710	16000	12.0	314	13600	33	41	--
29...	1510	19700	12.0	509	27100	12	18	--
AUG								
15...	1240	E13000	--	270	--	40	45	55
27...	1320	E22000	6.5	1070	--	12	14	17
SEP								
12...	1235	6070	8.0	36	590	--	--	--
26...	1350	2700	7.0	21	153	--	--	--

DATE	SED. SUSP. FALL DIAM. % FINER THAN .016 MM (70340)	SED. SUSP. FALL DIAM. % FINER THAN .031 MM (70341)	SED. SUSP. FALL DIAM. % FINER THAN .062 MM (70342)	SED. SUSP. FALL DIAM. % FINER THAN .125 MM (70343)	SED. SUSP. FALL DIAM. % FINER THAN .250 MM (70344)	SED. SUSP. FALL DIAM. % FINER THAN .500 MM (70345)	SED. SUSP. FALL DIAM. % FINER THAN 1.00 MM (70346)
OCT							
05...	--	--	24	34	75	100	--
MAY							
17...	--	--	48	65	87	100	--
JUN							
12...	--	--	30	40	69	97	100
JUL							
10...	56	--	74	80	90	99	100
29...	30	--	51	61	87	100	--
AUG							
15...	71	80	82	88	94	100	--
27...	27	40	56	63	83	99	100
SEP							
12...	--	--	67	74	84	99	100
26..	--	--	60	64	73	100	--

DATE	TIME	SAMPLE LOC-ATION, CROSS SECTION (FT FM L BANK) (00009)	BED MAT. SIEVE DIAM. % FINER THAN 16.0 MM (80172)	BED MAT. SIEVE DIAM. % FINER THAN 32.0 MM (80173)	BED MAT. SIEVE DIAM. % FINER THAN 64.0 MM (80174)	BED MAT. SIEVE DIAM. % FINER THAN 128 MM (80175)
OCT						
07...	1030	670	0	5	49	100
07...	1040	750	0	7	26	100
07...	1050	820	0	5	59	100

E ESTIMATED

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ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

Samples are collected at sites other than gaging stations and partial-record stations to give better areal coverage in a river basin. Such sites are referred to as miscellaneous sites

SOUTHEAST ALASKA

580502134371400 - GREENS C AB BIG SORE C NR JUNEAU AK

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS) (00061)	SPECIFIC CONDUCTANCE LAB (UMHOS) (90095)	PH (STANDARD UNITS) (00400)	TEMPERATURE, AIR (DEG C) (00020)	TEMPERATURE (DEG C) (00010)	TURBIDITY (NTU) (00076)	HARDNESS (MG/L AS CACO3) (00900)	HARDNESS, NONCARBONATE (MG/L CACO3) (00902)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)
SEP 07...	1330	24	116	7.4	15.0	6.0	.40	53	10	18	1.9	1.3

DATE	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	ALKALINITY FIELD (MG/L AS CACO3) (00410)	ALKALINITY LAB (MG/L AS CACO3) (90410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N) (00607)
SEP 07...	.20	43	42	14	1.2	<.10	3.9	65	66	<.10	.050	.15

DATE	NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOSPHORUS, DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P) (00671)	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL) (01105)	ALUMINUM, DISSOLVED (UG/L AS AL) (01106)	ARSENIC TOTAL (UG/L AS AS) (01002)	ARSENIC DISSOLVED (UG/L AS AS) (01000)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA) (01007)	BARIUM, DISSOLVED (UG/L AS BA) (01005)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	CADMIUM DISSOLVED (UG/L AS CD) (01025)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)
SEP 07...	.20	<.010	<.010	<100	<100	<1	<1	<100	34	1	<1	<10

DATE	CHROMIUM, DISSOLVED (UG/L AS CR) (01030)	COBALT, TOTAL RECOVERABLE (UG/L AS CO) (01037)	COBALT, DISSOLVED (UG/L AS CO) (01035)	COPPER, TOTAL RECOVERABLE (UG/L AS CU) (01042)	COPPER, DISSOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)	IRON, DISSOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	LEAD, DISSOLVED (UG/L AS PB) (01049)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)
SEP 07...	<10	<1	<1	3	1	30	16	<1	<1	<10	3	.2

DATE	MERCURY DISSOLVED (UG/L AS HG) (71890)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI) (01067)	NICKEL, DISSOLVED (UG/L AS NI) (01065)	SELENIUM, TOTAL (UG/L AS SE) (01147)	SELENIUM, DISSOLVED (UG/L AS SE) (01145)	SILVER, TOTAL RECOVERABLE (UG/L AS AG) (01077)	SILVER, DISSOLVED (UG/L AS AG) (01075)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	ZINC, DISSOLVED (UG/L AS ZN) (01090)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)
SEP 07...	<.1	5	1	<1	1	<1	<1	10	11	8	.52

580500134371900 - BIG SORE C NR JUNEAU AK

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS) (00061)	SPECIFIC CONDUCTANCE (UMHOS) (00095)	SPECIFIC CONDUCTANCE LAB (UMHOS) (90095)	PH (STANDARD UNITS) (00400)	TEMPERATURE, AIR (DEG C) (00020)	TEMPERATURE (DEG C) (00010)	TURBIDITY (NTU) (00076)	HARDNESS (MG/L AS CACO3) (00900)	HARDNESS, NONCARBONATE (MG/L CACO3) (00902)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)
SEP 07...	1550	2.5	164	150	7.6	14.0	6.0	1.2	71	19	20	5.0

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

SOUTHEAST ALASKA--Continued

580500134371900 - BIG SORE C NR JUNEAU AK--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY FIELD (MG/L AS CACO3) (00410)	ALKA-LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)
SEP												
07...	1.2	.30	52	51	20	.70	<.10	4.1	77	83	<.10	.050

DATE	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS-PHORUS, DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P) (00671)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ARSENIC TOTAL (UG/L AS AS) (01002)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)
SEP												
07...	.25	.30	<.010	<.010	200	<100	<1	<1	<100	56	1	<1

DATE	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO) (01037)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)
SEP												
07...	<10	<10	1	1	7	2	530	39	4	2	20	5

DATE	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
SEP												
07. .	.1	<.1	10	<1	1	1	<1	<1	50	20	44	.30

580500134373300 - EAST MINE DRAINAGE C NR JUNEAU AK

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	SPE-CIFIC CON-DUCT-ANCE (UMHOS) (00095)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS) (90095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE, AIR (DEG C) (00020)	TEMPER-ATURE (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	HARD-NESS (MG/L AS CACO3) (00900)	HARD-NESS, NONCAR-BONATE (MG/L CACO3) (00902)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)
SEP												
07...	1555	.27	293	269	8.0	11.5	5.5	.70	120	54	27	13

DATE	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY FIELD (MG/L AS CACO3) (00410)	ALKA-LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)
SEP												
07...	4.3	.80	67	66	58	1.6	<.10	6.9	161	150	.67	.230

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

SOUTHEAST ALASKA--Continued

580500134373300 - EAST MINE DRAINAGE C NR JUNEAU AK--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	NITROGEN, ORGANIC DISSOLVED (MG/L AS N) (00607)	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOSPHORUS, DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P) (00671)	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL) (01105)	ALUMINUM, DISSOLVED (UG/L AS AL) (01106)	ARSENIC TOTAL (UG/L AS AS) (01002)	ARSENIC DISSOLVED (UG/L AS AS) (01000)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA) (01007)	BARIUM, DISSOLVED (UG/L AS BA) (01005)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	CADMIUM DISSOLVED (UG/L AS CD) (01025)
SEP 07...	.27	.50	<.010	<.010	<100	<100	<1	<1	<100	29	1	1

DATE	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	CHROMIUM, DISSOLVED (UG/L AS CR) (01030)	COBALT, TOTAL RECOVERABLE (UG/L AS CO) (01037)	COBALT, DISSOLVED (UG/L AS CO) (01035)	COPPER, TOTAL RECOVERABLE (UG/L AS CU) (01042)	COPPER, DISSOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)	IRON, DISSOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	LEAD, DISSOLVED (UG/L AS PB) (01049)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)
SEP 07...	<10	<10	2	<1	7	2	170	34	5	4	50	52

DATE	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	MERCURY DISSOLVED (UG/L AS HG) (71890)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI) (01067)	NICKEL, DISSOLVED (UG/L AS NI) (01065)	SELENIUM, TOTAL (UG/L AS SE) (01147)	SELENIUM, DISSOLVED (UG/L AS SE) (01145)	SILVER, TOTAL RECOVERABLE (UG/L AS AG) (01077)	SILVER, DISSOLVED (UG/L AS AG) (01075)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	ZINC, DISSOLVED (UG/L AS ZN) (01090)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)
SEP 07...	1.3	<.1	7	5	2	2	<1	<1	100	83	21	.02

580442134385600 - GREENS CR BL GALLAGHER CR NR JUNEAU ALASKA

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS) (00061)	SPECIFIC CONDUCTANCE LAB (UMHOS) (90095)	PH (STANDARD UNITS) (00400)	TEMPERATURE, AIR (DEG C) (00020)	TEMPERATURE (DEG C) (00010)	TURBIDITY (NTU) (00076)	HARDNESS (MG/L AS CACO3) (00900)	HARDNESS, NONCARBONATE (MG/L CACO3) (00902)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)
SEP 07...	1020	41	134	7.7	10.0	7.0	.50	60	14	19	3.1	1.4

DATE	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	ALKALINITY FIELD (MG/L AS CACO3) (00410)	ALKALINITY LAB (MG/L AS CACO3) (90410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N) (00607)
SEP 07...	.30	46	47	15	.70	<.10	3.9	70	71	<.10	.060	.34

DATE	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOSPHORUS, DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P) (00671)	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL) (01105)	ALUMINUM, DISSOLVED (UG/L AS AL) (01106)	ARSENIC TOTAL (UG/L AS AS) (01002)	ARSENIC DISSOLVED (UG/L AS AS) (01000)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA) (01007)	BARIUM, DISSOLVED (UG/L AS BA) (01005)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	CADMIUM DISSOLVED (UG/L AS CD) (01025)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)
SEP 07...	.40	<.010	.010	100	<100	<1	<1	<100	35	1	<1	<10

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

SOUTHEAST ALASKA--Continued

580442134385600 - GREENS CR BL GALLAGHER CR NR JUNEAU AK--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	CHROMIUM, DISSOLVED (UG/L AS CR) (01030)	COBALT, TOTAL RECOVERABLE (UG/L AS CO) (01037)	COBALT, DISSOLVED (UG/L AS CO) (01035)	COPPER, TOTAL RECOVERABLE (UG/L AS CU) (01042)	COPPER, DISSOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)	IRON, DISSOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	LEAD, DISSOLVED (UG/L AS PB) (01049)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)
SEP												
07...	<10	1	<1	8	3	50	17	3	<1	<10	4	<.1

DATE	MERCURY DISSOLVED (UG/L AS HG) (71890)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI) (01067)	NICKEL, DISSOLVED (UG/L AS NI) (01065)	SELENIUM, TOTAL (UG/L AS SE) (01147)	SELENIUM, DISSOLVED (UG/L AS SE) (01145)	SILVER, TOTAL RECOVERABLE (UG/L AS AG) (01077)	SILVER, DISSOLVED (UG/L AS AG) (01075)	ZINC, TOTAL RECOVERABLE (UG/L AS ZN) (01092)	ZINC, DISSOLVED (UG/L AS ZN) (01090)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)
SEP											
07...	<.1	6	2	<1	1	<1	<1	30	12	13	1.4

580431134385200 - EAST MINE DRAINAGE C BL POND NR JUNEAU ALASKA

DATE	TIME	STREAMFLOW, INSTANTANEOUS (CFS) (00061)	SPECIFIC CONDUCTANCE LAB (UMHOS) (90095)	PH (STANDARD UNITS) (00400)	TEMPERATURE, AIR (DEG C) (00020)	TEMPERATURE (DEG C) (00010)	TURBIDITY (NTU) (00076)	HARDNESS (MG/L AS CACO3) (00900)	HARDNESS, NONCARBONATE (MG/L CACO3) (00902)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)
SEP												
07...	1155	.05	585	7.4	12.0	8.0	5.2	270	110	50	36	12

DATE	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	ALKALINITY LAB (MG/L AS CACO3) (90410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, ORGANIC DISSOLVED (MG/L AS N) (00607)	NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)
SEP												
07...	2.9	168	130	2.3	.20	5.0	362	340	2.5	1.60	1.0	2.6

DATE	PHOSPHORUS, DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P) (00671)	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL) (01105)	ALUMINUM, DISSOLVED (UG/L AS AL) (01106)	ARSENIC TOTAL (UG/L AS AS) (01002)	ARSENIC DISSOLVED (UG/L AS AS) (01000)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA) (01007)	BARIUM, DISSOLVED (UG/L AS BA) (01005)	CADMIUM TOTAL RECOVERABLE (UG/L AS CD) (01027)	CADMIUM DISSOLVED (UG/L AS CD) (01025)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	CHROMIUM, DISSOLVED (UG/L AS CR) (01030)
SEP												
07...	.020	<.010	1800	<100	5	1	<100	32	27	<1	<10	<10

DATE	COBALT, TOTAL RECOVERABLE (UG/L AS CO) (01037)	COBALT, DISSOLVED (UG/L AS CO) (01035)	COPPER, TOTAL RECOVERABLE (UG/L AS CU) (01042)	COPPER, DISSOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)	IRON, DISSOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	LEAD, DISSOLVED (UG/L AS PB) (01049)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)
SEP											
07...	4	2	18	13	5100	75	200	2	470	380	.3

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

SOUTHEAST ALASKA--Continued

580431134385200 - EAST MINE DRAINAGE C BL POND NR JUNEAU AK--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
SEP 07...	<.1	26	<1	<1	<1	<1	<1	760	360	100	.01

580430134390000 - NORANDA EXPLORTORY ADIT DRAINAGE NR JUNEAU AK

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	SPE-CIFIC CON-DUCT-ANCE LAB (UMHOS) (90095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE, AIR (DEG C) (00020)	TEMPER-ATURE (DEG C) (00010)	TUR-BID-ITY (NTU) (00076)	HARD-NESS (MG/L AS CACO3) (00900)	HARD-NESS, NONCAR-BONATE (MG/L CACO3) (00902)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)
SEP 07...	1040	.07	623	7.6	10.0	7.5	21	280	100	50	38	15

DATE	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, ORGANIC DIS-SOLVED (MG/L AS N) (00607)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)
SEP 07...	3.2	181	140	2.5	.30	5.3	387	370	3.9	1.70	1.5	3.2

DATE	PHOS-PHORUS, DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P) (00671)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ARSENIC TOTAL (UG/L AS AS) (01002)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	CADMIUM TOTAL RECOV-ERABLE (UG/L AS CD) (01027)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)
SEP 07...	.080	.070	1000	<100	21	2	900	28	24	<1	50	<10

DATE	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO) (01037)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)
SEP 07...	30	1	120	12	140000	100	2000	4	4700	240	1.4

DATE	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
SEP 07...	<.1	49	6	<1	<1	5	<1	7700	420	2540	.48

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

SOUTH-CENTRAL ALASKA

15272970 LITTLE SURVIVAL CREEK NEAR ANCHORAGE AK

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	SPE-CIFIC CON-DUCT-ANCE (UMHOS) (00095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	BARO-METRIC PRES-SURE (MM OF HG) (00025)
APR 26...	1015	.95	162	8.0	2.0	14.0	100	771
MAY 31...	1710	3.4	102	8.3	7.5	8.0	67	761
JUN 29...	1130	.70	110	8.1	10.0	9.7	87	753
JUL 31...	1045	.37	167	8.0	11.0	10.5	95	762

610656149552800 - COOK INLET TR AT KLATT RD AT ANCHORAGE AK

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	SPE-CIFIC CON-DUCT-ANCE (UMHOS) (00095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)
OCT 31...	1330	.68	290	7.2	.0

610711149535200 - COOK INLET TR NR KLATT RD AT ANCHORAGE AK

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	SPE-CIFIC CON-DUCT-ANCE (UMHOS) (00095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)
OCT 31...	1420	.91	330	7.1	.0

610730149560800 - BAYSHORE LK TR AT BAYSHORE RD AT ANCHORAGE AK

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	SPE-CIFIC CON-DUCT-ANCE (UMHOS) (00095)	TEMPER-ATURE (DEG C) (00010)
OCT 31...	1210	.08	180	.0

610734149560900 - BAYSHORE LK TR NR BAYSHORE ELEM SCH ANCHORAGE AK

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	SPE-CIFIC CON-DUCT-ANCE (UMHOS) (00095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)
OCT 31...	1145	E.01	175	7.2	.0

E ESTIMATED

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS SITES

SOUTH-CENTRAL ALASKA--Continued

610758149551000 - CAMPBELL LK TR AT VICTOR RD AT ANCHORAGE AK

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	STREAM-FLOW, INSTAN-TANEOUS (CFS) (00061)	SPE-CIFIC CON-DUCT-ANCE (UMHOS) (00095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)
OCT					
31...	1125	.08	290	7.9	.0

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ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS LAKE SITES

SOUTH-CENTRAL ALASKA

611001149555600 - CONNORS LK MIDDLE NR ANCHORAGE AK

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	SAMPLING DEPTH (M) (00098)	SPECIFIC CONDUCTANCE (UMHOS) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE (DEG C) (00010)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
JUN								
28...	0937	.10	127	6.9	16.5	754	8.7	90
28...	0938	.50	127	6.9	16.5	754	8.7	90
28...	0939	1.0	177	6.9	16.5	754	8.8	91
28...	0940	1.5	127	7.0	16.5	754	8.8	91
28...	0941	2.0	127	7.1	16.0	754	8.8	90
28...	0942	2.5	127	7.1	16.0	754	8.9	91
28...	0943	2.7	127	7.0	16.0	754	8.0	82

DATE	TIME	TEMPERATURE, AIR (DEG C) (00020)	HARDNESS (MG/L AS CACO3) (00900)	HARDNESS, NONCARBONATE (MG/L CACO3) (00902)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	BICARBONATE IT-FLD (MG/L AS HCO3) (99440)	ALKALINITY, CARBONATE IT-FLD (MG/L - CACO3) (99430)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE. DISSOLVED (MG/L AS CL) (00940)
JUN												
28...	0945	21.0	64	2	19	4.0	2.7	1.3	76	62	3.3	2.9

DATE	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P) (00671)	PHOSPHATE, ORTHO, DISSOLVED (MG/L AS PO4) (00660)	IRON, DISSOLVED (UG/L AS FE) (01046)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	CHLOROPHYLL A FLUOROMETRIC METHOD CORR. (UG/L) (32209)
JUN												
28...	<.10	.8	72	<.10	<.10	.50	.010	.020	.06	140	27	.900

613427149293100 - LUCILE LK (STA 4) AT WASILLA AK

DATE	TIME	SAMPLING DEPTH (M) (00098)	SPECIFIC CONDUCTANCE (UMHOS) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE (DEG C) (00010)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	CHLOROPHYLL A FLUOROMETRIC METHOD CORR. (UG/L) (32209)
MAY									
07...	1057	.10	200	7.9	8.0	762	14.7	124	--
07...	1058	.50	200	7.9	8.0	762	14.8	124	--
07...	1059	1.0	200	7.9	8.0	762	14.8	124	1.98
07...	1100	1.5	200	7.9	8.0	762	14.8	124	--
07...	1101	1.8	200	8.0	8.0	762	14.6	123	--
21...	1110	.10	169	8.1	15.5	750	13.9	141	--
21...	1111	.50	169	8.1	15.5	750	13.8	140	--
21...	1112	1.0	170	8.1	15.5	750	13.4	136	3.00
21...	1113	1.5	170	8.1	15.5	750	13.5	137	--
JUN									
11...	1124	.10	139	8.2	17.5	756	13.7	145	--
11...	1125	.50	140	8.3	17.5	756	13.7	145	--
11...	1126	1.0	139	8.3	17.5	756	13.9	147	1.57
11...	1127	1.5	138	8.3	17.5	756	13.9	147	--
26...	0950	.10	129	8.4	18.0	745	10.0	108	--
26...	0951	.50	129	8.4	18.0	745	10.0	108	--
26...	0952	1.0	129	8.4	18.0	745	9.9	107	2.57
26...	0953	1.5	129	8.4	18.0	745	9.5	103	--
JUL									
09...	1133	.10	131	8.3	19.5	747	10.0	111	--
09...	1134	.50	131	8.2	19.5	747	9.9	110	--
09...	1135	1.0	130	8.3	19.5	747	10.2	113	2.20
09...	1136	1.5	131	8.3	19.5	747	10.2	113	--
23...	1313	.10	138	8.0	18.0	755	12.7	136	--
23...	1314	.50	138	8.1	18.0	755	12.8	137	--
23...	1315	1.0	137	8.2	18.0	755	13.3	142	4.21

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS LAKE SITES

SOUTH-CENTRAL ALASKA--Continued

613427149293100 - LUCILE LK (STA 4) AT WASILLA AK--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPREMBER 1984

DATE	TIME	SAMPLING DEPTH (M) (00098)	SPECIFIC CONDUCTANCE (UMHOS) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE (DEG C) (00010)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	CHLOROPHYLL A FLUOROMETRIC METHOD CORR. (UG/L) (32209)
AUG									
06...	1250	.10	145	7.8	18.5	750	10.3	112	--
06...	1251	.50	144	8.0	18.5	750	10.4	113	3.56
06...	1252	1.0	144	8.1	18.5	750	10.4	113	--
23...	1034	.10	164	7.8	15.0	748	9.8	99	--
23...	1035	.50	164	7.8	15.0	748	9.8	99	--
23...	1036	1.0	157	7.8	15.0	748	9.8	99	3.19
23...	1037	1.5	166	7.9	15.0	748	9.8	99	--
SEP									
04...	1026	.10	155	8.1	11.5	747	12.0	113	--
04...	1027	.50	155	8.1	11.5	747	12.0	113	--
04...	1028	1.0	155	8.1	11.5	747	12.0	113	2.88
04...	1029	1.5	155	8.1	11.5	747	12.0	113	--
25...	1452	.10	160	7.0	9.5	751	12.0	106	--
25...	1453	.50	158	7.2	9.5	751	12.1	107	--
25...	1454	1.0	158	7.4	9.5	751	12.2	108	3.00
25...	1455	1.3	157	7.5	9.5	751	12.3	109	--

DATE	TIME	CLOUD COVER (PERCENT) (00032)	WIND SPEED (MILES PER HOUR) (00035)	WIND DIRECTION (DEG. FROM TRUE NORTH) (00036)	SAMPLING DEPTH (M) (00098)	ICE THICKNESS METERS (82131)	SNOW DEPTH INCHES (82300)	SAMPLING METHOD, CODES (82398)
MAY								
07...	1102	0	1.0	270	--	.00	.00	--
07...	1115	--	--	--	1.0	--	--	100
21...	1114	100	.0	--	--	--	--	--
21...	1115	--	--	--	1.0	--	--	100
JUN								
11...	1128	5	.0	--	--	--	--	--
11...	1130	--	--	--	1.0	--	--	100
26...	0954	100	7.0	45	--	--	--	--
26...	1000	--	--	--	1.0	--	--	100
JUL								
09...	1137	100	.0	--	--	--	--	--
09...	1140	--	--	--	1.0	--	--	100
23...	1316	100	.0	--	--	--	--	--
23...	1320	--	--	--	1.0	--	--	100
AUG								
06...	1253	100	3.0	180	--	--	--	--
06...	1300	--	--	--	1.0	--	--	100
23...	1038	100	2.0	270	--	--	--	--
23...	1045	--	--	--	1.0	--	--	100
SEP								
04...	1030	10	4.0	90	--	--	--	--
04...	1040	--	--	--	1.0	--	--	100
25...	1456	100	.0	--	--	--	--	--
25...	1500	--	--	--	1.0	--	--	100

DATE	TEMPERATURE, AIR (DEG C) (00020)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P) (00671)
MAY							
07...	9.0	--	--	--	--	--	--
07...	--	<.01	<.01	.028	.50	.011	<.001
21...	12.5	--	--	--	--	--	--
21...	--	<.01	<.01	.042	.60	.007	<.001
JUN							
11...	19.0	--	--	--	--	--	--
11...	--	<.01	<.01	.059	.80	.004	<.001
26...	13.5	--	--	--	--	--	--
26...	--	--	--	.028	.40	.008	--

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ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS LAKE SITES

SOUTH-CENTRAL ALASKA--Continued

613427149293100 - LUCILE LK (STA 4) AT WASILLA AK--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TEMPER- ATURE, AIR (DEG C) (00020)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	PHOS- PHORUS, TOTAL (MG/L AS P) (00665)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P) (00671)
JUL							
09...	17.0	--	--	--	--	--	--
09...	--	<.01	<.01	.020	.50	.009	.013
23...	22.0	--	--	--	--	--	--
23...	--	<.01	--	.010	.60	.005	--
AUG							
06...	16.5	--	--	--	--	--	--
06...	--	<.01	.01	.019	.70	.009	.002
23...	16.0	--	--	--	--	--	--
23...	--	<.01	<.01	.010	.60	<.005	.010
SEP							
04...	12.0	--	--	--	--	--	--
04...	--	<.01	<.01	.020	.30	.005	<.002
25...	9.0	--	--	--	--	--	--
25...	--	<.01	<.01	.019	.70	.009	<.002

613430149283200 - LUCILE LK (STA 3) AT WASILLA AK

DATE	TIME	SAM- PLING DEPTH (M) (00098)	SPE- CIFIC CON- DUCT- ANCE (UMHOS) (00095)	PH (STAND- ARD UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)
MAY									
07...	1115	.10	201	8.0	8.0	762	15.5	130	--
07...	1116	.50	203	8.1	7.5	762	15.4	129	--
07...	1117	1.0	203	8.1	7.5	762	15.4	129	--
07...	1118	1.5	205	8.1	7.5	762	15.5	130	3.04
07...	1119	2.0	212	8.0	7.5	762	15.0	126	--
07...	1120	2.2	226	7.9	7.5	762	15.0	126	--
21...	1312	.10	183	7.5	15.5	750	14.3	145	--
21...	1313	.50	184	7.7	15.5	750	14.2	144	--
21...	1314	1.0	185	7.8	15.5	750	14.0	142	--
21...	1315	1.5	188	7.8	15.5	750	13.1	133	4.28
21...	1316	1.8	188	7.8	15.5	750	13.0	132	--
JUN									
11...	1106	.10	143	8.2	17.5	756	13.2	139	--
11...	1107	.50	144	8.2	17.5	756	13.0	136	--
11...	1108	1.0	143	8.3	17.5	756	13.1	138	2.28
11...	1109	1.5	143	8.3	17.5	756	13.3	140	--
26...	1015	.10	127	8.4	18.5	745	11.4	125	--
26...	1016	.50	128	8.5	18.5	745	11.4	125	--
26...	1017	1.0	128	8.5	18.5	745	11.2	123	--
26...	1018	1.5	128	8.5	18.5	745	11.2	123	3.15
26...	1019	2.0	293	6.9	18.0	745	1.3	14	--
JUL									
09...	1107	.10	133	8.1	19.5	747	10.5	117	--
09...	1108	.50	134	8.2	19.5	747	10.5	117	--
09...	1109	1.0	134	8.2	19.5	747	10.4	115	--
09...	1110	1.5	134	8.3	19.5	747	10.0	111	3.22
09...	1111	2.0	148	8.2	19.5	747	8.8	98	--
23...	1100	.10	138	8.2	17.5	755	11.7	124	--
23...	1101	.50	137	8.2	17.5	755	12.0	127	--
23...	1102	1.0	137	8.3	17.5	755	12.0	126	--
23...	1103	1.5	139	8.2	17.5	755	10.5	110	3.59
23...	1104	2.0	166	7.8	17.0	755	4.0	42	--
23...	1105	2.1	384	6.6	16.5	755	1.3	13	--
AUG									
06...	1230	.10	150	7.7	18.5	750	10.1	109	--
06...	1231	.50	150	7.9	18.5	750	10.0	108	--
06....	1232	1.0	150	8.0	18.5	750	9.9	107	--
06....	1233	1.5	179	7.5	18.5	750	7.7	83	5.23
06...	1234	2.0	289	6.5	18.0	750	3.0	32	--
23...	1101	.10	163	7.8	15.0	748	10.3	104	--
23...	1102	.50	164	7.8	15.0	748	10.3	104	--
23...	1103	1.0	164	7.9	15.0	748	10.2	103	--
23...	1104	1.5	165	8.0	14.5	748	10.3	103	3.62

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS LAKE SITES

SOUTH-CENTRAL ALASKA--Continued

613430149283200 - LUCILE LK (STA 3) AT WASILLA AK--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	SAMPLING DEPTH (M) (00098)	SPECIFIC CONDUCTANCE (UMHOS) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE (DEG C) (00010)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	CHLOROPHYLL A FLUOROMETRIC METHOD CORR. (UG/L) (32209)
SEP									
04...	1234	.10	160	8.1	12.0	747	12.6	119	--
04...	1235	.50	160	8.1	12.0	747	12.3	116	--
04...	1236	1.0	160	8.2	12.0	747	12.3	116	--
04...	1237	1.5	160	8.3	12.0	747	12.8	121	2.88
04...	1238	1.9	165	8.3	12.0	747	12.5	118	--
25...	1429	.10	160	6.8	9.5	751	11.6	103	--
25...	1430	.50	160	7.1	9.5	751	11.4	102	--
25...	1431	1.0	160	7.3	9.5	751	11.4	102	4.88
25...	1432	1.5	161	7.4	9.5	751	11.0	98	--

DATE	TIME	CLOUD COVER (PERCENT) (00032)	WIND SPEED (MILES PER HOUR) (00035)	WIND DIRECTION (DEG. FROM TRUE NORTH) (00036)	SAMPLING DEPTH (M) (00098)	ICE THICKNESS METERS (82131)	SNOW DEPTH INCHES (82300)	SAMPLING METHOD, CODES (82398)
MAY								
07...	1121	0	.0	--	--	.00	.00	--
07...	1130	--	--	--	1.5	--	--	100
21...	1317	100	.0	--	--	--	--	--
21...	1320	--	--	--	1.0	--	--	100
JUN								
11...	1110	5	.0	--	--	--	--	--
11...	1115	--	--	--	1.0	--	--	100
26...	1020	100	2.0	90	--	--	--	--
26...	1030	--	--	--	1.5	--	--	100
JUL								
09...	1112	100	.0	--	--	--	--	--
09...	1115	--	--	--	1.5	--	--	100
23...	1106	100	.0	--	--	--	--	--
23...	1120	--	--	--	1.5	--	--	100
AUG								
06...	1235	100	3.0	180	--	--	--	--
06...	1245	--	--	--	1.5	--	--	100
23...	1105	100	2.0	270	--	--	--	--
23...	1115	--	--	--	1.5	--	--	100
SEP								
04...	1239	10	.0	--	--	--	--	--
04...	1245	--	--	--	1.5	--	--	100
25...	1433	100	.0	--	--	--	--	--
25...	1440	--	--	--	1.0	--	--	100

DATE	TEMPERATURE, AIR (DEG C) (00020)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, TOTAL (MG/L AS N) (00600)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P) (00671)
MAY								
07...	9.0	--	--	--	--	--	--	--
07...	--	<.01	<.01	.048	1.1	--	.012	.002
21...	13.5	--	--	--	--	--	--	--
21...	--	<.01	<.01	.035	.50	--	.008	.002
JUN								
11...	19.0	--	--	--	--	--	--	--
11...	--	<.01	<.01	.037	.60	--	.008	<.001
26...	13.5	--	--	--	--	--	--	--
26...	--	.03	.03	.036	.60	.63	.009	.007
JUL								
09...	18.0	--	--	--	--	--	--	--
09...	--	<.01	<.01	.023	.50	--	.011	.014
23...	22.0	--	--	--	--	--	--	--
23...	--	<.01	<.01	.030	.60	--	.006	.009
AUG								
06...	16.5	--	--	--	--	--	--	--
06...	--	<.01	.02	.017	.40	--	.022	.015

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS LAKE SITES

SOUTH-CENTRAL ALASKA--Continued

613430149283200 - LUCILE LK (STA 3) AT WASILLA AK--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TEMPERATURE, AIR (DEG C) (00020)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (000631)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, TOTAL (MG/L AS N) (00600)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P) (00671)
AUG								
23...	16.5	--	--	--	--	--	--	--
23...	--	<.01	<.01	<.003	.40	--	.007	.010
SEP								
04...	15.0	--	--	--	--	--	--	--
04...	--	<.01	<.01	.014	.30	--	.006	<.002
25...	9.5	--	--	--	--	--	--	--
25...	--	.01	--	.017	.50	.51	.010	<.002

613441149273800 - LUCILE LK (STA 2) AT WASILLA AK

DATE	TIME	SAMPLING DEPTH (M) (00098)	SPECIFIC CONDUCTANCE (UMHOS) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE (DEG C) (00010)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	CHLOROPHYLL A FLUOROMETRIC METHOD CORR. (UG/L) (32209)
MAY									
07...	0923	.10	246	7.5	8.0	762	14.3	121	--
07...	0924	.50	246	7.6	8.0	762	14.3	121	4.28
07...	0925	1.0	246	7.6	8.0	762	14.3	121	--
07...	0926	1.5	246	7.6	8.0	762	14.3	121	4.52
07...	0927	2.0	246	7.6	8.0	762	14.3	121	--
07...	0928	2.5	246	7.6	8.0	762	14.3	121	4.59
07...	0929	3.0	247	7.6	8.0	762	14.3	121	--
07...	0930	3.5	248	7.6	8.0	762	14.2	120	4.69
07...	0931	4.0	249	7.6	8.0	762	14.1	119	--
07...	0932	4.5	261	7.5	7.5	762	12.4	103	5.51
07...	0933	5.0	264	7.3	7.5	762	12.1	100	--
07...	0934	5.5	277	7.2	7.0	762	10.2	84	--
07...	0935	5.6	372	6.6	7.0	762	.5	4	--
21...	1157	.10	202	7.5	15.0	750	13.4	135	--
21...	1158	.50	204	7.6	15.0	750	13.3	134	4.60
21...	1159	1.0	204	7.7	15.0	750	13.3	134	--
21...	1200	1.5	204	7.8	15.0	750	13.3	134	4.81
21...	1201	2.0	204	7.8	15.0	750	13.3	134	--
21...	1202	2.5	204	7.8	15.0	750	13.3	134	4.04
21...	1203	3.0	203	7.8	15.0	750	13.3	134	--
21...	1204	3.5	203	7.9	15.0	750	13.3	134	3.93
21...	1205	4.0	203	7.9	15.0	750	13.2	133	--
21...	1206	4.5	205	7.8	15.0	750	12.3	124	3.20
21...	1207	5.0	210	7.6	14.5	750	11.9	119	--
21...	1208	5.5	213	7.3	14.5	750	10.5	104	--
21...	1209	6.0	238	7.2	14.0	750	5.7	56	--
21...	1210	6.2	284	6.5	13.0	750	.4	4	--
JUN									
11...	0951	.10	151	8.2	17.5	756	11.9	125	--
11...	0952	.50	151	8.2	17.5	756	11.9	125	3.48
11...	0953	1.0	150	8.2	17.5	756	12.0	126	--
11...	0954	1.5	149	8.2	17.5	756	12.3	129	3.59
11...	0955	2.0	147	8.2	17.5	756	12.3	129	--
11...	0956	2.5	147	8.3	17.5	756	12.4	130	3.51
11...	0957	3.0	146	8.3	17.5	756	12.5	131	--
11...	0958	3.5	146	8.3	17.5	756	12.4	130	3.82
11...	0959	4.0	146	8.3	17.5	756	12.4	130	--
11...	1000	4.5	148	8.2	17.0	756	12.0	125	3.48
11...	1001	5.0	180	6.7	17.0	756	2.1	22	--
11...	1002	5.5	180	6.7	17.0	756	1.2	13	--
26...	1044	.10	135	8.3	19.0	745	10.8	120	--
26...	1045	.50	135	8.3	19.0	745	10.8	120	3.66
26...	1046	1.0	135	8.3	19.0	745	10.7	119	--
26...	1047	1.5	135	8.3	19.0	745	10.7	119	3.13
26...	1048	2.0	136	8.4	19.0	745	10.7	119	--
26...	1049	2.5	136	8.4	19.0	745	10.6	117	4.87
26...	1050	3.0	135	8.3	19.0	745	10.3	114	--
26...	1051	3.5	135	8.3	19.0	745	10.2	113	3.18
26...	1052	4.0	134	8.4	19.0	745	9.9	109	--
26...	1053	4.5	145	7.6	18.0	745	7.2	78	3.43
26...	1054	5.0	149	7.2	17.5	745	5.9	63	--

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS LAKE SITES

SOUTH-CENTRAL ALASKA--Continued

613441149273800 - LUCILE LK (STA 2) AT WASILLA AK--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	SAMPLING DEPTH (M) (00098)	SPECIFIC CONDUCTANCE (UMHOS) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE (DEG C) (00010)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	CHLOROPHYLL A FLUOROMETRIC METHOD CORR. (UG/L) (32209)
JUN									
26...	1055	5.5	159	6.9	17.0	745	2.5	26	--
JUL									
09...	1017	.10	131	8.5	19.5	747	11.8	132	--
09...	1018	.50	131	8.5	20.0	747	11.8	132	4.67
09...	1019	1.0	131	8.5	20.0	747	11.8	132	--
09...	1020	1.5	131	8.5	20.0	747	11.8	132	4.83
09...	1021	2.0	131	8.5	20.0	747	11.7	131	--
09...	1022	2.5	131	8.5	20.0	747	11.7	131	5.07
09...	1023	3.0	140	8.2	19.5	747	9.5	105	--
09...	1024	3.5	137	8.2	19.0	747	10.8	119	6.33
09...	1025	4.0	136	8.1	18.5	747	9.4	102	--
09...	1026	4.5	136	7.9	18.0	747	8.4	91	5.23
09...	1027	5.0	136	7.6	18.0	747	7.0	75	--
09...	1028	5.5	137	7.2	18.0	747	3.8	41	--
09...	1029	6.0	142	6.8	17.5	747	2.3	25	--
09...	1030	6.3	167	6.4	17.0	747	.5	5	--
23...	1159	.10	144	8.1	17.5	755	11.0	117	--
23...	1200	.50	144	8.1	17.5	755	11.0	117	4.10
23...	1201	1.0	143	8.2	17.5	755	11.0	116	--
23...	1202	1.5	144	8.2	17.5	755	10.5	111	3.73
23...	1203	2.0	144	8.1	17.5	755	10.4	109	--
23...	1204	2.5	145	8.0	17.0	755	9.2	96	3.75
23...	1205	3.0	145	8.0	16.5	755	8.9	92	--
23...	1206	3.5	145	7.9	16.5	755	8.6	89	4.67
23...	1207	4.0	145	7.9	16.5	755	8.4	87	--
23...	1208	4.5	147	7.5	16.0	755	6.6	68	4.37
23...	1209	5.0	146	7.4	16.0	755	5.9	60	--
23...	1210	5.5	151	6.8	16.0	755	3.0	31	--
AUG									
06...	1133	.10	144	8.3	18.5	750	11.5	125	--
06...	1134	.50	144	8.3	18.5	750	11.5	125	4.05
06...	1135	1.0	143	8.3	18.5	750	11.5	125	--
06...	1136	1.5	143	8.3	18.5	750	11.4	124	4.75
06...	1137	2.0	143	8.3	18.5	750	11.4	124	--
06...	1138	2.5	143	8.2	18.5	750	11.3	123	5.10
06...	1139	3.0	145	8.2	18.5	750	10.7	116	--
06...	1140	3.5	165	7.1	18.0	750	6.1	66	3.46
06...	1141	4.0	170	6.7	17.5	750	5.0	53	--
06...	1142	4.5	168	6.6	17.5	750	5.2	55	4.13
06...	1143	5.0	165	6.5	17.0	750	3.2	34	--
06...	1144	5.5	167	6.4	17.0	750	1.4	15	--
06...	1145	6.6	191	6.3	16.5	750	.5	5	--
07...	1257	.10	145	8.2	19.5	749	10.6	118	--
07...	1258	.50	145	8.2	19.3	749	10.7	118	--
07...	1259	1.0	146	8.2	19.0	749	10.7	118	--
07...	1300	1.5	146	8.2	19.0	749	10.7	117	--
07...	1301	2.0	145	8.3	18.5	749	10.7	117	--
07...	1302	2.5	146	8.2	18.5	749	10.7	116	--
07...	1303	3.0	146	8.2	18.5	749	10.6	115	--
07...	1304	3.5	150	8.0	18.5	749	9.4	102	--
07...	1305	4.0	168	7.2	18.0	749	5.6	60	--
07...	1306	4.5	168	6.9	18.0	749	5.7	61	--
07...	1307	5.0	167	6.7	17.5	749	4.9	52	--
07...	1308	5.5	165	6.6	17.5	749	3.0	32	--
07...	1309	6.0	168	6.4	17.0	749	1.1	12	--
07...	1310	6.5	216	6.4	16.5	749	.6	6	--
07...	1500	.10	145	8.0	19.5	749	10.9	121	--
07...	1501	1.0	146	8.0	18.5	749	10.8	118	--
07...	1502	2.0	145	8.0	18.5	749	10.9	118	--
07...	1503	3.0	146	8.0	18.5	749	10.7	116	--
07...	1504	4.0	165	7.0	18.0	749	6.0	65	--
07...	1505	5.0	167	6.6	17.5	749	3.3	35	--
07...	1506	6.0	164	6.4	17.0	749	1.2	13	--
07...	1658	.10	146	8.1	19.5	749	10.8	119	--
07...	1659	1.0	146	8.1	19.0	749	10.9	120	--
07...	1700	2.0	146	8.2	18.5	749	11.0	120	--
07...	1701	3.0	147	8.1	18.5	749	10.6	115	--
07...	1702	4.0	155	7.8	18.0	749	9.0	97	--
07...	1703	5.0	168	6.7	17.5	749	4.0	43	--
07...	1704	6.0	163	6.4	17.0	749	1.7	18	--
07...	1856	.10	146	8.1	19.5	748	11.0	123	--
07...	1857	1.0	146	8.1	19.5	748	11.0	122	--
07...	1858	2.0	147	8.2	19.0	748	11.8	129	--

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS LAKE SITES

SOUTH-CENTRAL ALASKA--Continued

613441149273800 - LUCILE LK (STA 2) AT WASILLA AK--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	SAMPLING DEPTH (M) (00098)	SPECIFIC CONDUCTANCE (UMHOS) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE (DEG C) (00010)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	CHLOROPHYLL A FLUOROMETRIC METHOD CORR. (UG/L) (32209)
AUG									
07...	1859	3.0	145	8.2	18.5	748	12.3	134	--
07...	1900	4.0	166	7.0	18.0	748	6.8	73	--
07...	1901	5.0	167	6.7	17.5	748	4.0	43	--
07...	1902	6.0	165	6.4	17.0	748	1.8	19	--
07...	2100	.10	147	8.1	19.5	748	10.9	122	--
07...	2101	1.0	147	8.1	19.5	748	11.0	122	--
07...	2102	2.0	148	8.2	19.0	748	12.1	133	--
07...	2103	3.0	147	8.2	18.5	748	11.0	120	--
07...	2104	4.0	162	7.1	18.0	748	6.2	67	--
07...	2105	5.0	167	6.6	17.5	748	4.1	44	--
07...	2106	6.0	167	6.3	17.0	748	1.2	13	--
07...	2300	.10	148	8.1	19.5	748	10.9	121	--
07...	2301	1.0	148	8.1	19.5	748	11.0	122	--
07...	2302	2.0	150	8.2	19.0	748	11.8	130	--
07...	2303	3.0	148	8.2	18.5	748	10.8	118	--
07...	2304	4.0	166	7.0	18.0	748	5.7	61	--
07...	2305	5.0	167	6.6	17.5	748	4.4	47	--
07...	2306	6.0	166	6.4	17.0	748	1.8	19	--
08...	0107	.10	148	8.2	19.5	748	10.8	120	--
08...	0108	1.0	148	8.1	19.5	748	10.8	120	--
08...	0109	2.0	150	8.1	19.0	748	12.1	132	--
08...	0110	3.0	151	8.1	18.5	748	9.7	105	--
08...	0111	4.0	169	6.9	18.0	748	5.6	60	--
08...	0112	5.0	167	6.7	17.5	748	4.2	45	--
08...	0113	6.0	166	6.4	17.0	748	1.5	16	--
08...	0307	.10	147	8.2	19.5	749	10.8	119	--
08...	0308	1.0	148	8.2	19.5	749	10.8	119	--
08...	0309	2.0	149	8.2	19.0	749	11.6	127	--
08...	0310	3.0	150	8.1	18.5	749	10.0	108	--
08...	0311	4.0	165	7.0	18.0	749	6.3	68	--
08...	0312	5.0	166	6.7	17.5	749	4.5	48	--
08...	0313	6.0	165	6.5	17.0	749	1.7	18	--
08...	0521	.10	148	8.2	19.0	749	10.8	119	--
08...	0522	1.0	147	8.2	19.0	749	10.8	119	--
08...	0523	2.0	147	8.2	19.0	749	11.3	124	--
08...	0524	3.0	149	8.2	18.5	749	10.5	114	--
08...	0525	4.0	161	6.9	18.0	749	5.6	60	--
08...	0526	5.0	166	6.7	17.5	749	3.3	35	--
08...	0527	6.0	169	6.5	17.0	749	1.3	14	--
08...	0658	.10	148	8.2	19.0	749	10.8	119	--
08...	0659	1.0	148	8.2	19.0	749	10.8	119	--
08...	0700	2.0	148	8.2	19.0	749	10.9	120	--
08...	0701	3.0	150	8.1	18.5	749	10.2	111	--
08...	0702	4.0	162	7.0	18.0	749	5.7	62	--
08...	0703	5.0	167	6.7	17.5	749	4.0	42	--
08...	0704	6.0	169	6.5	17.0	749	1.0	11	--
08...	0855	.10	147	8.2	19.0	749	10.8	119	--
08...	0856	1.0	148	8.2	19.0	749	10.8	119	--
08...	0857	2.0	148	8.2	19.0	749	11.1	122	--
08...	0858	3.0	151	8.1	18.5	749	9.9	107	--
08...	0859	4.0	165	6.9	18.0	749	5.5	59	--
08...	0900	5.0	167	6.6	17.5	749	3.0	32	--
08...	0901	6.0	167	6.4	17.0	749	1.2	13	--
08...	1100	.10	147	8.3	19.0	749	10.7	117	--
08...	1101	1.0	148	8.3	19.0	749	10.7	117	--
08...	1102	2.0	147	8.3	19.0	749	10.7	117	--
08...	1103	3.0	151	8.1	18.5	749	10.0	108	--
08...	1104	4.0	165	7.0	18.0	749	6.5	70	--
08...	1105	5.0	168	6.7	17.5	749	3.1	33	--
08...	1106	6.0	171	6.5	17.0	749	.7	7	--
08...	1259	.10	148	8.2	19.0	748	10.8	119	--
08...	1300	1.0	148	8.2	19.0	748	10.8	119	--
08...	1301	2.0	148	8.2	19.0	748	10.9	120	--
08...	1302	3.0	151	8.1	18.5	748	10.0	109	--
08...	1303	4.0	160	7.0	18.0	748	6.4	69	--
08...	1304	5.0	168	6.7	17.5	748	4.8	51	--
08...	1305	6.0	171	6.5	17.0	748	1.0	11	--
23...	1205	.10	165	7.6	15.5	748	9.6	98	--
23...	1206	.50	165	7.6	15.5	748	9.5	97	4.37
23...	1207	1.0	165	7.7	15.5	748	9.4	96	--
23...	1208	1.5	165	7.7	15.5	748	9.4	96	4.24

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ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS LAKE SITES

SOUTH-CENTRAL ALASKA--Continued

613441149273800 - LUCILE LK (STA 2) AT WASILLA AK--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	SAM- PLING DEPTH (M) (00098)	SPE- CIFIC CON- DUCT- ANCE (UMHOS) (00095)	PH (STAND- ARD UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)
AUG									
23...	1209	2.0	165	7.7	15.0	748	9.4	95	--
23...	1210	2.5	165	7.7	15.0	748	9.3	94	4.93
23...	1211	3.0	165	7.7	15.0	748	9.3	94	--
23...	1212	3.5	166	7.8	15.0	748	9.5	96	3.54
23...	1213	4.0	167	7.8	15.0	748	9.5	96	--
23...	1214	4.5	167	7.8	15.0	748	9.5	96	2.33
23...	1215	5.0	167	7.8	15.0	748	9.3	94	--
23...	1216	5.5	168	7.7	15.0	748	9.1	92	--
23...	1217	5.8	168	7.7	15.0	748	6.0	60	--
23...	1218	6.1	176	6.5	15.0	748	1.0	10	--
SEP									
04...	1130	.10	162	7.9	12.0	747	12.4	117	--
04...	1131	.50	163	8.0	12.0	747	12.3	116	2.75
04...	1132	1.0	163	8.0	12.0	747	12.3	116	--
04...	1133	1.5	163	8.0	12.0	747	12.3	116	3.09
04...	1134	2.0	163	8.0	12.0	747	12.3	116	--
04...	1135	2.5	163	8.1	12.0	747	12.3	116	3.48
04...	1136	3.0	162	8.1	12.0	747	12.3	116	--
04...	1137	3.5	162	8.1	12.0	747	12.2	116	3.46
04...	1138	4.0	162	8.1	12.0	747	12.2	116	--
04...	1139	4.5	162	8.1	12.0	747	12.2	116	3.30
04...	1140	5.0	162	8.1	12.0	747	12.2	116	--
04...	1141	5.5	162	8.1	12.0	747	12.2	116	--
04...	1142	6.0	162	8.1	12.0	747	12.2	116	--
04...	1143	6.3	172	7.8	12.0	747	4.3	41	--
25...	1300	.10	161	7.5	9.5	751	11.2	100	--
25...	1301	.50	161	7.6	9.5	751	11.2	100	3.92
25...	1302	1.0	161	7.7	9.5	751	11.2	100	--
25...	1303	1.5	161	7.7	9.5	751	11.2	100	3.77
25...	1304	2.0	161	7.7	9.5	751	11.2	100	--
25...	1305	2.5	161	7.7	9.5	751	11.2	100	3.49
25...	1306	3.0	161	7.7	9.5	751	11.2	100	--
25...	1307	3.5	161	7.7	9.5	751	11.1	99	3.71
25...	1308	4.0	160	7.7	9.5	751	11.1	99	--
25...	1309	4.5	159	7.7	9.5	751	11.1	99	3.06
25...	1310	5.0	159	7.8	9.5	751	11.1	99	--
25...	1311	5.5	163	7.6	9.5	751	10.2	91	--
25...	1312	6.0	178	6.4	10.0	751	7.0	63	--

DATE	TIME	CLOUD COVER (PER- CENT) (00032)	WIND SPEED (MILES PER HOUR) (00035)	WIND DIREC- TION (DEG. FROM TRUE NORTH) (00036)	SAM- PLING DEPTH (M) (00098)	ICE THICK- NESS METERS (82131)	SNOW DEPTH INCHES (82300)	SAM- PLING METHOD, CODES (82398)	TRANS- PAR- ENCY (SECCHI DISK) (M) (00078)	LIGHT INCID. 400- 700NM INTENS. (U-EINS /SQM/S) (00200)
MAY										
07...	0936	0	1.0	90	--	.00	.00	--	3.7	736
07...	0945	--	--	--	1.0	--	--	100	--	--
07...	1000	--	--	--	4.5	--	--	100	--	--
21...	1211	100	.0	--	--	--	--	--	3.5	496
21...	1230	--	--	--	1.0	--	--	100	--	--
21...	1245	--	--	--	5.5	--	--	100	--	--
JUN										
11...	1003	5	.0	--	--	--	--	--	3.3	917
11...	1016	--	--	--	1.0	--	--	100	--	--
11...	1029	--	--	--	5.0	--	--	100	--	--
26...	1056	100	4.0	90	--	--	--	--	3.2	228
26...	1100	--	--	--	1.0	--	--	100	--	--
26...	1115	--	--	--	5.0	--	--	100	--	--
JUL										
09...	1031	100	.0	--	--	--	--	--	3.4	249
09...	1040	--	--	--	1.0	--	--	100	--	--
09...	1050	--	--	--	5.0	--	--	100	--	--
23...	1211	100	.0	--	--	--	--	--	3.1	742
23...	1215	--	--	--	1.0	--	--	100	--	--
23...	1230	--	--	--	5.0	--	--	100	--	--
AUG										
06...	1146	100	1.0	180	--	--	--	--	4.0	324
06...	1150	--	--	--	1.0	--	--	100	--	--
06...	1200	--	--	--	5.0	--	--	100	--	--

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS LAKE SITES

SOUTH-CENTRAL ALASKA--Continued

613441149273800 - LUCILE LK (STA 2) AT WASILLA AK--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	CLOUD COVER (PER-CENT) (00032)	WIND SPEED (MILES PER HOUR) (00035)	WIND DIREC-TION (DEG. FROM TRUE NORTH) (00036)	SAM-PLING DEPTH (M) (00098)	ICE THICK-NESS METERS (82131)	SNOW DEPTH INCHES (82300)	SAM-PLING METHOD, CODES (82398)	TRANS-PAR-ENCY (SECCHI DISK) (M) (00078)	LIGHT INCID. 400-700NM INTENS. (U-EINS /SQM/S) (00200)
AUG										
07...	1311	50	2.0	225	--	--	--	--	3.8	1650
07...	1507	60	1.0	225	--	--	--	--	3.8	1650
07...	1705	50	1.0	225	--	--	--	--	3.8	1360
07...	1903	40	1.0	225	--	--	--	--	3.4	560
07...	2107	40	.0	--	--	--	--	--	--	116
07...	2307	40	.0	--	--	--	--	--	--	.00
08...	0114	30	.0	--	--	--	--	--	--	.00
08...	0314	80	.0	--	--	--	--	--	--	.00
08...	0528	85	.0	--	--	--	--	--	--	1.00
08...	0705	100	.0	--	--	--	--	--	3.3	51.0
08...	0902	95	.0	--	--	--	--	--	3.4	300
08...	1107	100	.0	--	--	--	--	--	3.4	298
08...	1306	100	1.0	180	--	--	--	--	3.6	540
23...	1219	90	3.0	270	--	--	--	--	4.7	559
23...	1230	--	--	--	1.0	--	--	100	--	--
23...	1245	--	--	--	5.0	--	--	100	--	--
SEP										
04...	1144	10	.0	--	--	--	--	--	5.4	653
04...	1205	--	--	--	1.0	--	--	100	--	--
04...	1215	--	--	--	5.0	--	--	100	--	--
25...	1313	100	.0	--	--	--	--	--	--	104
25...	1320	--	--	--	1.0	--	--	100	--	--
25...	1330	--	--	--	5.0	--	--	100	--	--

DATE	LIGHT, ATTENU-ATION COEFFI-CIENT (ALPHA/ METER) (70971)	LIGHT DEPTH TO 1 % OF SURFACE LIGHT METERS (85328)	TEMPER-ATURE, AIR (DEG C) (00020)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, TOTAL (MG/L AS N) (00600)	PHOS-PHORUS, TOTAL (MG/L AS P) (00665)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P) (00671)
MAY										
07...	.54	>5.5	9.0	--	--	--	--	--	--	--
07...	--	--	--	.02	--	.080	.90	.92	.014	.001
07...	--	--	--	<.01	.01	.264	1.4	--	.015	<.001
21...	.40	>6.0	12.5	--	--	--	--	--	--	--
21...	--	--	--	<.01	<.01	.033	.50	--	.006	.001
21...	--	--	--	<.01	<.01	.058	.60	--	.007	.001
JUN										
11...	.47	>5.0	19.0	--	--	--	--	--	--	--
11...	--	--	--	<.01	<.01	.072	1.6	--	.005	<.001
11...	--	--	--	<.01	<.01	.082	.60	--	.007	<.001
26...	.46	>5.5	13.5	--	--	--	--	--	--	--
26...	--	--	--	.03	.03	.026	.80	.83	.010	.007
26...	--	--	--	.03	.03	.039	.60	.63	.011	.002
JUL										
09...	.52	>6.0	17.5	--	--	--	--	--	--	--
09...	--	--	--	<.01	<.01	.017	.60	--	.010	.013
09...	--	--	--	<.01	<.01	.019	.60	--	.013	.014
23...	.48	>5.5	22.0	--	--	--	--	--	--	--
23...	--	--	--	<.01	<.01	.016	.60	--	.006	<.002
23...	--	--	--	<.01	<.01	.029	.70	--	.009	.015
AUG										
06...	.53	>5.5	16.5	--	--	--	--	--	--	--
06...	--	--	--	<.01	.02	.015	.50	--	.021	<.002
06...	--	--	--	<.01	.02	.066	.50	--	.008	<.002
07...	--	--	25.0	--	--	--	--	--	--	--
07...	--	--	23.0	--	--	--	--	--	--	--
07...	--	--	26.5	--	--	--	--	--	--	--
07...	--	--	27.0	--	--	--	--	--	--	--
07...	--	--	21.5	--	--	--	--	--	--	--
07...	--	--	16.0	--	--	--	--	--	--	--
08...	--	--	15.5	--	--	--	--	--	--	--
08...	--	--	15.0	--	--	--	--	--	--	--
08...	--	--	13.0	--	--	--	--	--	--	--
08...	--	--	14.0	--	--	--	--	--	--	--
08...	--	--	16.5	--	--	--	--	--	--	--
08...	--	--	18.0	--	--	--	--	--	--	--
08...	--	--	18.5	--	--	--	--	--	--	--
23...	.42	>5.5	16.5	--	--	--	--	--	--	--

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS LAKE SITES

SOUTH-CENTRAL ALASKA--Continued

613441149273800 - LUCILE LK (STA 2) AT WASILLA AK--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	LIGHT, ATTENU- ATION COEFFI- CIENT (ALPHA/ METER) (70971)	LIGHT DEPTH TO 1 % OF SURFACE LIGHT METERS (85328)	TEMPER- ATURE, AIR (DEG C) (00020)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN, TOTAL (MG/L AS N) (00600)	PHOS- PHORUS, TOTAL (MG/L AS P) (00665)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P) (00671)
AUG										
23...	--	--	--	<.01	<.01	.008	.70	--	.006	.010
23...	--	--	--	<.01	<.01	.032	.70	--	.009	.010
SEP										
04...	.43	>6.0	14.0	--	--	--	--	--	--	--
04...	--	--	--	<.01	<.01	.025	.40	--	.005	<.002
04...	--	--	--	<.01	<.01	.011	.30	--	.006	<.002
25...	.41	>5.5	10.5	--	--	--	--	--	--	--
25...	--	--	--	.01	<.01	.029	.50	.51	.009	<.002
25...	--	--	--	<.01	<.01	.023	.70	--	.031	.002

DATE	TIME	HARD- NESS (MG/L AS CACO3) (00900)	HARD- NESS, NONCAR- BONATE (MG/L CACO3) (00902)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	LINITY. CARBON- ATE IT-FLD (MG/L - CACO3) (99430)
MAY								
07...	0945	120	0	39	5.5	4.7	1.1	121
07...	1000	130	0	42	5.8	4.7	1.2	128

DATE	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	BORON, DIS- SOLVED (UG/L AS B) (01020)	IRON, DIS- SOLVED (UG/L AS FE) (01046)
MAY								
07...	3.4	6.8	<.10	3.1	145	140	40	10
07...	3.2	6.8	<.10	3.8	148	150	50	10

613448149265300 - LUCILE LK (STA 1) AT WASILLA AK

DATE	TIME	SAM- PLING DEPTH (M) (00098)	SPE- CIFIC CON- DUCT- ANCE (UMHOS) (00095)	PH (STAND- ARD UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	CHLORO- PHYLL A FLUORO- METRIC METHOD CORR. (UG/L) (32209)
MAY									
07...	1027	.10	254	7.6	9.0	762	14.1	122	--
07...	1028	.50	254	7.6	9.0	762	14.1	121	--
07...	1029	1.0	253	7.6	9.0	762	14.2	122	3.19
07...	1030	1.5	254	7.6	9.0	762	14.1	121	--
21...	1143	.10	203	7.5	15.0	750	13.5	136	--
21...	1144	.50	204	7.6	15.0	750	13.5	136	--
21...	1145	1.0	204	7.6	15.0	750	13.5	136	3.61
21...	1146	1.5	204	7.7	15.0	750	13.5	136	--
21...	1147	2.0	208	7.6	15.0	750	13.3	134	--
21...	1148	2.2	211	7.4	15.0	750	12.5	126	--
JUN									
11...	1042	.10	155	8.0	17.5	756	12.0	127	--
11...	1043	.50	158	8.0	17.5	756	12.0	127	--
11...	1044	1.0	156	8.1	17.5	756	11.9	126	--
11...	1045	1.5	155	8.1	17.5	756	12.7	134	4.51
11...	1046	2.0	156	8.1	17.5	756	12.7	134	--
11...	1047	2.5	213	7.4	17.5	756	6.3	66	--
11...	1048	2.8	234	6.9	17.0	756	2.0	21	--
26...	1138	.10	140	8.2	19.0	745	10.9	120	--
26...	1139	.50	140	8.3	19.0	745	10.8	119	--
26...	1140	1.0	141	8.3	19.0	745	10.8	119	--
26...	1141	1.5	141	8.3	19.0	745	10.8	119	--
26...	1142	2.0	141	8.3	19.0	745	10.9	120	--
26...	1143	2.5	148	8.2	19.0	745	9.0	99	--
26...	1144	2.7	197	6.9	18.5	745	5.1	56	--

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS LAKE SITES

SOUTH-CENTRAL ALASKA--Continued

613448149265300 - LUCILE LK (STA 1) AT WASILLA AK--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	SAMPLING DEPTH (M) (00098)	SPECIFIC CONDUCTANCE (UMHOS) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE (DEG C) (00010)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	CHLOROPHYLL A FLUOROMETRIC METHOD CORR. (UG/L) (32209)
JUL									
09...	0931	.10	137	8.2	19.5	747	9.8	109	--
09...	0932	.50	137	8.2	19.5	747	9.6	107	--
09...	0933	1.0	137	8.2	19.5	747	9.6	107	--
09...	0934	1.5	137	8.2	19.5	747	9.5	106	4.26
09...	0935	2.0	137	8.1	19.5	747	9.2	102	--
09...	0936	2.5	370	7.9	19.5	747	1.3	14	--
23...	1135	.10	145	8.1	17.5	755	10.6	112	--
23...	1136	.50	145	8.1	17.5	755	10.8	114	--
23...	1137	1.0	145	8.1	17.5	755	10.9	115	--
23...	1138	1.5	145	8.1	17.5	755	10.7	113	5.18
23...	1139	2.0	149	8.0	17.5	755	9.8	103	--
23...	1140	2.5	160	7.7	17.0	755	7.7	80	--
23...	1141	2.7	180	7.0	16.5	755	4.0	41	--
AUG									
06...	1050	.10	147	8.1	18.5	750	10.9	118	--
06...	1051	.50	147	8.1	18.5	750	11.0	119	--
06...	1052	1.0	147	8.1	18.5	750	11.0	119	--
06...	1053	1.5	147	8.2	18.5	750	11.0	119	6.86
06...	1054	2.0	149	8.1	18.5	750	10.6	115	--
06...	1055	2.8	224	7.2	18.5	750	5.0	54	--
23...	1135	.10	164	7.9	15.5	748	10.3	105	--
23...	1136	.50	164	7.9	15.5	748	10.2	104	--
23...	1137	1.0	164	7.9	15.5	748	10.7	109	3.62
SEP									
04...	1055	.10	163	7.9	12.0	747	12.9	122	--
04...	1056	.50	164	8.0	12.0	747	12.6	119	--
04...	1057	1.0	164	8.0	12.0	747	12.5	118	--
04...	1058	1.5	164	8.1	12.0	747	12.6	119	2.57
04...	1059	2.0	163	8.1	12.0	747	12.6	119	--
04...	1100	2.3	166	8.1	12.0	747	12.2	116	--
25...	1210	.10	166	7.6	9.5	751	11.0	98	--
25...	1211	.50	167	7.6	9.5	751	11.0	98	--
25...	1212	1.0	167	7.6	9.5	751	11.0	98	4.26
25...	1213	1.5	168	7.6	9.5	751	10.9	97	--
25...	1214	2.0	170	7.5	9.5	751	10.9	97	--
25...	1215	2.2	170	7.5	9.5	751	11.0	98	--

DATE	TIME	CLOUD COVER (PERCENT) (00032)	WIND SPEED (MILES PER HOUR) (00035)	WIND DIRECTION (DEG. FROM TRUE NORTH) (00036)	SAMPLING DEPTH (M) (00098)	ICE THICKNESS METERS (82131)	SNOW DEPTH INCHES (82300)	SAMPLING METHOD, CODES (82398)
MAY								
07...	1032	0	1.0	270	--	.00	.00	--
07...	1040	--	--	--	1.0	--	--	100
21...	1149	100	.0	--	--	--	--	--
21...	1150	--	--	--	1.0	--	--	100
JUN								
11...	1049	5	.0	--	--	--	--	--
11...	1050	--	--	--	1.5	--	--	100
26...	1145	100	4.0	90	--	--	--	--
26...	1200	--	--	--	1.5	--	--	100
JUL								
09...	0937	100	.0	--	--	--	--	--
09...	0940	--	--	--	1.5	--	--	100
23...	1142	100	.0	--	--	--	--	--
23...	1145	--	--	--	1.5	--	--	100
AUG								
06...	1056	100	1.0	180	--	--	--	--
06...	1100	--	--	--	1.5	--	--	100
23...	1138	90	1.0	270	--	--	--	--
23...	1145	--	--	--	1.5	--	--	100
SEP								
04...	1101	10	2.0	90	--	--	--	--
04...	1105	--	--	--	1.5	--	--	--
25...	1216	100	.0	--	--	--	--	--
25...	1220	--	--	--	1.5	--	--	100

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS LAKE SITES

SOUTH-CENTRAL ALASKA--Continued

613448149265300 - LUCILE LK (STA 1) AT WASILLA AK--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TEMPERATURE, AIR (DEG C) (00020)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, TOTAL (MG/L AS N) (00600)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P) (00671)
MAY								
07...	9.0	--	--	--	--	--	--	--
07...	--	.03	.03	.041	.60	.63	.014	.001
21...	12.5	--	--	--	--	--	--	--
21...	--	<.01	<.01	.026	.50	--	<.005	.003
JUN								
11...	19.0	--	--	--	--	--	--	--
11...	--	<.01	<.01	.040	.70	--	.007	<.001
26...	14.0	--	--	--	--	--	--	--
26...	--	.03	.03	.031	.70	.73	.010	.007
JUL								
09...	17.0	--	--	--	--	--	--	--
09...	--	<.01	<.01	.024	.50	--	.013	.014
23...	22.0	--	--	--	--	--	--	--
23...	--	<.01	<.01	.024	.70	--	.008	<.002
AUG								
06...	16.5	--	--	--	--	--	--	--
06...	--	<.01	.01	.046	1.1	--	.017	.002
23...	18.0	--	--	--	--	--	--	--
23...	--	<.01	<.01	.004	.50	--	.006	.010
SEP								
04...	12.0	--	--	--	--	--	--	--
04...	--	<.01	<.01	.023	.40	--	.006	<.002
25...	12.0	--	--	--	--	--	--	--
25...	--	.01	<.01	.025	.80	.81	.019	<.002

613451149265700 - LUCILE LK SPRING AREA NE CORNER AT WASILLA AK

DATE	TIME	SAMPLING DEPTH (M) (00098)	SPECIFIC CONDUCTANCE (UMHOS) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE (DEG C) (00010)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
AUG								
07...	1130	.10	157	8.1	18.5	749	12.3	134
07...	1131	.50	162	8.0	18.5	749	11.3	123
07...	1132	1.0	332	7.0	4.0	749	9.3	72
07...	1133	1.5	353	7.0	4.0	749	9.5	74
07...	1134	1.6	346	7.0	4.0	749	8.8	69
SEP								
25...	1405	.10	172	7.3	9.0	751	11.5	101
25...	1406	.25	221	7.0	7.5	751	10.2	87
25...	1407	.50	296	6.6	5.5	751	11.2	90
25...	1408	.75	319	6.6	5.0	751	10.8	85
25...	1409	1.0	324	6.5	4.5	751	11.9	94
25...	1410	1.3	337	6.6	4.5	751	9.3	73

DATE	TIME	CLOUD COVER (PERCENT) (00032)	WIND SPEED (MILES PER HOUR) (00035)	SAMPLING DEPTH (M) (00098)	TEMPERATURE, AIR (DEG C) (00020)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, TOTAL (MG/L AS N) (00600)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	PHOSPHORUS ORTH DISSOLVE (MG/L AS P) (00671
AUG												
07...	1135	50	.0	--	18.0	--	--	--	--	--	--	-
SEP												
25...	1411	100	.0	--	9.5	--	--	--	--	--	--	-
25...	1415	--	--	1.0	--	1.3	1.5	.007	5.5	6.8	<.500	.01

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS LAKE SITES

SOUTH-CENTRAL ALASKA--Continued

613131149551000 - BIG LK SE OF BURSTON IS NR WASILLA AK

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	SAMPLING DEPTH (M) (00098)	SPECIFIC CONDUCTANCE (UMHOS) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE (DEG C) (00010)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
MAR								
07...	1215	.10	118	7.3	.0	758	12.4	86
07...	1216	1.0	115	7.3	1.5	758	11.6	83
07...	1217	2.0	115	7.3	1.5	758	11.3	81
07...	1218	3.0	114	7.4	2.0	758	11.2	81
07...	1219	4.0	113	7.3	2.0	758	10.9	79
07...	1220	5.0	112	7.3	2.5	758	10.6	78
07...	1221	6.0	110	7.3	2.5	758	9.9	73
07...	1222	7.0	110	7.2	2.5	758	9.5	70
07...	1223	8.0	110	7.2	2.5	758	9.2	68
07...	1224	9.0	110	7.2	2.5	758	8.9	66
07...	1225	10.0	111	7.1	2.5	758	8.4	62
07...	1226	11.0	112	7.1	3.0	758	8.1	60
07...	1227	12.0	113	7.1	3.0	758	7.9	59
07...	1228	13.0	112	7.0	3.0	758	7.4	55
07...	1229	14.0	113	7.0	3.0	758	6.9	51
07...	1230	15.0	113	7.0	3.0	758	7.0	52
07...	1231	16.0	113	7.0	3.0	758	6.3	47
07...	1232	17.0	113	6.9	3.0	758	6.0	45
07...	1233	18.0	113	6.9	3.0	758	5.5	41
07...	1234	19.0	113	6.9	3.0	758	4.3	32
07...	1235	20.0	113	6.9	3.0	758	2.9	22
07...	1236	21.1	149	7.1	3.5	758	.0	0
JUN								
21...	1151	.10	110	7.3	17.5	768	10.1	104
21...	1152	1.0	110	7.3	17.0	768	10.0	103
21...	1153	2.0	110	7.3	17.0	768	10.0	102
21...	1154	3.0	110	7.3	16.5	768	10.0	102
21...	1155	4.0	110	7.3	15.5	768	10.3	102
21...	1156	5.0	112	7.3	13.0	768	10.8	102
21...	1157	6.0	113	7.2	13.0	768	10.8	102
21...	1158	7.0	113	7.2	9.0	768	10.5	90
21...	1159	8.0	114	7.2	8.0	768	10.2	86
21...	1200	9.0	114	7.2	7.0	768	9.8	80
21...	1201	10.0	114	7.2	6.5	768	9.5	77
21...	1202	11.0	113	7.2	6.5	768	9.4	76
21...	1203	12.0	113	7.1	6.0	768	8.5	68
21...	1204	13.0	113	7.1	5.5	768	7.9	62
21...	1205	14.0	112	7.0	5.5	768	7.7	61
21...	1206	15.0	112	7.0	5.5	768	7.5	59
21...	1207	16.0	112	7.0	5.5	768	7.3	57
21...	1208	17.0	112	6.9	5.5	768	7.0	55
21...	1209	18.0	111	6.9	5.0	768	6.9	54
21...	1210	19.0	111	6.9	5.0	768	6.6	51
21...	1211	20.0	110	6.9	5.0	768	6.5	51
21...	1212	21.0	110	6.8	5.0	768	6.4	50
21...	1213	21.5	116	6.8	5.0	768	5.9	46

DATE	TIME	TEMPERATURE, AIR (DEG C) (00020)	CLOUD COVER (PERCENT) (00032)	SPEED (MILES PER HOUR) (00035)	ICE THICKNESS METERS (82131)	SNOW DEPTH INCHES (82300)
MAR						
07...	1238	3.5	70	.0	.61	7.1
JUN						
21...	1214	21.0	50	.0	--	--

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS LAKE SITES

SOUTH-CENTRAL ALASKA--Continued

613150149554900 - BIG LK NW OF BURSTON IS NR WASILLA AK

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	SAMPLING DEPTH (M) (00098)	SPECIFIC CONDUCTANCE (UMHOS) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE (DEG C) (00010)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
OCT								
08...	1135	.10	103	6.6	6.5	767	10.5	85
08...	1136	1.0	103	6.7	6.5	767	10.5	85
08...	1137	2.0	103	6.7	6.5	767	10.5	85
08...	1138	3.0	103	6.8	6.5	767	10.4	84
08...	1139	4.0	103	6.8	6.5	767	10.5	85
08...	1140	5.0	102	6.9	6.5	767	10.5	85
08...	1141	6.0	102	6.9	6.5	767	10.5	85
08...	1142	7.0	102	6.9	6.5	767	10.5	85
08...	1143	8.0	102	6.9	6.5	767	10.4	84
08...	1144	9.0	101	7.0	6.5	767	10.4	84
08...	1145	10.0	101	7.0	6.5	767	10.4	84
08...	1146	11.0	100	7.0	6.5	767	10.1	82
08...	1147	12.0	100	7.0	6.5	767	10.1	82
08...	1148	13.0	100	7.0	6.5	767	10.1	82
08...	1149	14.0	98	7.0	6.5	767	10.0	81
08...	1150	15.0	97	7.0	7.0	767	10.0	82
08...	1151	16.0	97	7.0	7.0	767	9.8	80
08...	1152	17.0	97	7.1	7.0	767	9.8	80
08...	1153	18.0	99	7.1	6.5	767	9.9	80
08...	1154	19.0	99	7.1	7.0	767	9.8	80
08...	1155	20.0	99	7.1	6.5	767	9.9	80
08...	1156	21.0	99	7.1	6.5	767	9.8	80
08...	1157	22.0	99	7.1	6.5	767	9.9	80
08...	1158	23.0	99	7.0	6.5	767	9.4	76
08...	1159	23.3	122	6.7	6.5	767	1.1	9
DEC								
20...	1050	.10	115	6.6	1.0	772	13.7	95
20...	1051	.50	115	6.8	1.0	772	13.7	95
20...	1052	1.0	111	6.9	1.5	772	13.1	92
20...	1053	1.5	109	7.1	1.5	772	12.8	90
20...	1054	2.0	108	7.2	1.5	772	12.5	88
20...	1055	2.5	108	7.2	1.5	772	12.4	88
20...	1056	3.0	107	7.3	2.0	772	12.3	87
20...	1057	3.5	107	7.3	2.0	772	12.2	87
20...	1058	4.0	106	7.3	2.0	772	12.1	86
20...	1059	4.5	106	7.3	2.0	772	12.0	85
20...	1100	5.0	106	7.3	2.0	772	11.9	85
20...	1101	5.5	106	7.3	2.0	772	11.7	84
20...	1102	6.0	106	7.3	2.0	772	11.6	83
20...	1103	6.5	105	7.3	2.0	772	11.5	83
20...	1104	7.0	105	7.3	2.5	772	11.3	81
20...	1105	7.5	105	7.3	2.5	772	11.2	81
20...	1106	8.0	105	7.3	2.5	772	11.2	81
20...	1107	8.5	105	7.3	2.5	772	11.1	80
20...	1108	9.0	105	7.3	2.5	772	11.0	80
20...	1109	9.5	105	7.3	2.5	772	11.0	80
20...	1110	10.0	104	7.3	2.5	772	10.9	79
20...	1111	11.0	104	7.3	2.5	772	10.8	78
20...	1112	12.0	104	7.3	2.5	772	10.7	78
20...	1113	13.0	104	7.3	2.5	772	10.6	77
20...	1114	14.0	104	7.2	3.0	772	10.4	76
20...	1115	15.0	103	7.2	3.0	772	10.3	75
20...	1116	16.0	103	7.2	3.0	772	10.2	75
20...	1117	17.0	103	7.2	3.0	772	9.9	72
20...	1118	18.0	102	7.2	3.0	772	9.8	72
20...	1119	19.0	102	7.2	3.0	772	9.5	69
20...	1120	20.0	102	7.2	3.0	772	9.2	67
20...	1121	21.0	102	7.1	3.0	772	8.8	64
20...	1122	22.0	102	7.1	3.0	772	8.3	61
20...	1123	23.0	102	7.1	3.0	772	7.6	56
20...	1124	23.5	102	7.0	3.0	772	7.3	54
20...	1125	24.1	114	7.0	3.0	772	3.6	26
JAN								
18...	1030	.10	115	6.9	.5	761	13.4	93
18...	1031	1.0	111	7.1	1.0	761	12.5	89
18...	1032	1.5	109	7.2	1.5	761	12.2	87
18...	1033	2.0	109	7.2	1.5	761	12.2	88
18...	1034	2.5	109	7.2	2.0	761	12.1	87
18...	1035	3.0	108	7.2	2.0	761	12.0	86
18...	1036	3.5	108	7.2	2.0	761	11.9	86
18...	1037	4.0	108	7.3	2.0	761	11.8	85
18...	1038	4.5	107	7.3	2.0	761	11.7	85

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS LAKE SITES

SOUTH-CENTRAL ALASKA--Continued

613150149554900 - BIG LK NW OF BURSTON IS NR WASILLA AK--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	SAMPLING DEPTH (M) (00098)	SPECIFIC CONDUCTANCE (UMHOS) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE (DEG C) (00010)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
JAN								
18...	1039	5.0	107	7.3	2.0	761	11.4	83
18...	1040	5.5	106	7.3	2.0	761	11.3	82
18...	1041	6.0	106	7.3	2.0	761	11.2	82
18...	1042	6.5	106	7.3	2.5	761	11.0	80
18...	1043	7.0	105	7.3	2.5	761	10.9	80
18...	1044	7.5	106	7.3	2.5	761	10.8	79
18...	1045	8.0	105	7.2	2.5	761	10.6	78
18...	1046	8.5	106	7.2	2.5	761	10.4	76
18...	1047	9.0	106	7.2	2.5	761	10.3	76
18...	1048	9.5	106	7.2	2.5	761	10.2	75
18...	1049	10.0	106	7.2	2.5	761	10.1	74
18...	1050	11.0	105	7.2	2.5	761	10.0	74
18...	1051	12.0	105	7.1	3.0	761	9.7	72
18...	1052	13.0	105	7.1	3.0	761	9.6	71
18...	1053	14.0	105	7.1	3.0	761	9.4	70
18...	1054	15.0	104	7.1	3.0	761	9.1	68
18...	1055	16.0	105	7.1	3.0	761	8.8	65
18...	1056	17.0	105	7.1	3.0	761	8.3	62
18...	1057	18.0	105	7.0	3.0	761	8.0	59
18...	1058	19.0	105	7.0	3.0	761	7.7	57
18...	1059	20.0	105	7.0	3.0	761	7.3	54
18...	1100	21.0	105	6.9	3.0	761	6.9	51
18...	1101	22.0	105	6.9	3.0	761	6.2	46
18...	1102	23.0	106	6.9	3.0	761	5.4	40
18...	1103	23.5	106	6.8	3.0	761	4.5	33
18...	1104	24.1	134	6.7	3.5	761	.0	0
FEB								
29...	1008	.10	120	6.9	1.0	749	12.4	88
29...	1009	.50	117	7.0	.5	749	12.2	86
29...	1010	1.0	116	7.0	1.0	749	12.2	87
29...	1011	1.5	115	7.1	1.5	749	11.8	85
29...	1012	2.0	114	7.1	1.5	749	11.6	84
29...	1013	2.5	113	7.1	2.0	749	11.4	84
29...	1014	3.0	113	7.1	2.0	749	11.4	84
29...	1015	3.5	113	7.2	2.0	749	11.2	83
29...	1016	4.0	112	7.1	2.0	749	11.1	82
29...	1017	4.5	112	7.1	2.5	749	10.9	81
29...	1018	5.0	111	7.1	2.5	749	10.7	79
29...	1019	5.5	111	7.1	2.5	749	10.4	77
29...	1020	6.0	111	7.1	2.5	749	10.2	76
29...	1021	6.5	111	7.1	2.5	749	10.0	75
29...	1022	7.0	110	7.1	2.5	749	9.8	73
29...	1023	7.5	110	7.1	2.5	749	9.7	73
29...	1024	8.0	110	7.1	2.5	749	9.5	71
29...	1025	8.5	110	7.1	2.5	749	9.4	70
29...	1026	9.0	110	7.0	2.5	749	9.2	69
29...	1027	9.5	110	7.0	3.0	749	9.0	68
29...	1028	10.0	110	7.0	3.0	749	8.7	65
29...	1029	11.0	111	7.0	3.0	749	8.4	63
29...	1030	12.0	110	6.9	3.0	749	8.0	60
29...	1031	13.0	111	6.9	3.0	749	7.7	58
29...	1032	14.0	110	6.9	3.0	749	7.5	57
29...	1033	15.0	110	6.9	3.0	749	7.0	53
29...	1034	16.0	110	6.9	3.0	749	6.8	51
29...	1035	17.0	110	6.8	3.0	749	6.5	49
29...	1036	18.0	109	6.8	3.0	749	6.2	47
29...	1037	19.0	110	6.8	3.0	749	5.7	43
29...	1038	20.0	111	6.8	3.0	749	4.8	36
29...	1039	21.0	111	6.7	3.0	749	3.9	30
29...	1040	21.4	143	7.1	3.0	749	1.1	8
MAR								
07...	1123	.10	115	7.1	.0	758	12.7	88
07...	1124	1.0	112	7.3	1.0	758	12.1	85
07...	1125	2.0	113	7.3	1.5	758	11.8	84
07...	1126	3.0	113	7.3	2.0	758	11.3	82
07...	1127	4.0	113	7.3	2.0	758	10.9	79
07...	1128	5.0	112	7.2	2.5	758	10.6	78
07...	1129	6.0	111	7.2	2.5	758	10.1	74
07...	1130	7.0	111	7.2	2.5	758	9.7	72
07...	1131	8.0	111	7.1	2.5	758	9.0	67
07...	1132	9.0	111	7.1	2.5	758	8.8	65
07...	1133	10.0	110	7.1	3.0	758	8.7	65
07...	1134	11.0	111	7.1	3.0	758	8.1	60

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS LAKE SITES

SOUTH-CENTRAL ALASKA--Continued

613150149554900 - BIG LK NW OF BURSTON IS NR WASILLA AK--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	SAMPLING DEPTH (M) (00098)	SPECIFIC CONDUCTANCE (UMHOS) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE (DEG C) (00010)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
MAR								
07...	1135	12.0	111	7.1	3.0	758	7.8	58
07...	1136	13.0	112	7.1	3.0	758	7.6	57
07...	1137	14.0	112	7.1	3.0	758	7.5	56
07...	1138	15.0	112	7.0	3.0	758	7.4	55
07...	1139	16.0	111	7.0	3.0	758	7.0	52
07...	1140	17.0	111	7.0	3.0	758	6.7	50
07...	1141	18.0	110	7.0	3.0	758	6.3	47
07...	1142	19.0	110	7.0	3.0	758	6.0	45
07...	1143	20.0	110	7.0	3.0	758	5.5	41
07...	1144	21.0	112	6.9	3.0	758	4.9	37
07...	1145	22.0	112	6.9	3.0	758	4.5	34
07...	1146	23.0	114	6.9	3.0	758	3.9	29
07...	1147	24.0	164	7.9	3.5	758	.0	0
27...	1021	.10	118	6.9	1.0	753	13.2	94
27...	1022	.50	114	7.3	1.5	753	12.3	89
27...	1023	1.0	112	7.3	2.0	753	12.0	87
27...	1024	1.5	112	7.3	2.0	753	12.0	88
27...	1025	2.0	111	7.3	2.5	753	11.8	87
27...	1026	2.5	111	7.3	2.5	753	11.6	86
27...	1027	3.0	110	7.3	2.5	753	11.4	84
27...	1028	3.5	110	7.3	2.5	753	11.3	84
27...	1029	4.0	110	7.3	2.5	753	11.1	82
27...	1030	4.5	110	7.3	2.5	753	11.0	82
27...	1031	5.0	109	7.3	2.5	753	10.7	80
27...	1032	5.5	109	7.2	2.5	753	10.4	78
27...	1033	6.0	109	7.2	3.0	753	10.0	75
27...	1034	6.5	108	7.2	3.0	753	9.6	72
27...	1035	7.0	108	7.2	3.0	753	9.3	70
27...	1036	7.5	108	7.1	3.0	753	9.1	68
27...	1037	8.0	108	7.1	3.0	753	8.9	67
27...	1038	8.5	108	7.1	3.0	753	8.6	64
27...	1039	9.0	109	7.1	3.0	753	8.3	62
27...	1040	9.5	108	7.0	3.0	753	8.2	62
27...	1041	10.5	109	7.0	3.0	753	7.8	58
27...	1042	11.5	110	7.0	3.0	753	7.5	56
27...	1043	12.5	110	7.0	3.0	753	7.3	55
27...	1044	13.5	110	7.0	3.0	753	6.8	51
27...	1045	14.5	110	6.8	3.0	753	6.9	52
27...	1046	15.5	110	6.8	3.0	753	6.7	50
27...	1047	16.5	110	6.8	3.0	753	6.5	49
27...	1048	17.5	110	6.8	3.0	753	6.2	47
27...	1049	18.5	109	6.8	3.0	753	6.0	45
27...	1050	19.5	110	6.8	3.0	753	5.8	44
27...	1051	20.5	110	6.8	3.0	753	4.4	33
27...	1052	21.5	111	6.8	3.0	753	4.0	30
27...	1053	22.5	115	6.8	3.0	753	3.4	26
27...	1056	23.2	118	6.7	3.0	753	1.8	14
27...	1055	23.9	172	6.7	3.5	753	.0	0
MAY								
22...	0953	.10	108	6.9	9.0	754	11.6	101
22...	0954	.50	108	6.9	9.0	754	11.5	100
22...	0955	1.0	108	7.0	9.0	754	11.5	100
22...	0956	1.5	108	7.0	9.0	754	11.4	99
22...	0957	2.0	108	7.0	9.0	754	11.4	99
22...	0958	2.5	108	7.0	9.0	754	11.4	99
22...	0959	3.0	109	7.1	8.5	754	11.3	98
22...	1000	3.5	110	7.1	8.0	754	11.2	96
22...	1001	4.0	109	7.1	8.0	754	11.3	96
22...	1002	4.5	109	7.1	7.5	754	11.2	95
22...	1003	5.0	109	7.1	7.5	754	11.1	93
22...	1004	5.5	110	7.1	6.5	754	11.0	91
22...	1005	6.0	110	7.1	6.5	754	10.8	88
22...	1006	6.5	111	7.1	6.0	754	10.7	87
22...	1007	7.0	112	7.0	6.0	754	10.5	85
22...	1008	7.5	113	7.0	6.0	754	10.1	82
22...	1009	8.0	113	7.0	5.5	754	10.0	80
22...	1010	8.5	114	7.0	5.0	754	9.5	75
22...	1011	9.0	114	7.0	5.0	754	9.4	75
22...	1012	9.5	114	7.0	5.0	754	9.3	74
22...	1013	10.0	114	7.0	5.0	754	9.1	72
22...	1014	11.0	114	6.9	5.0	754	8.6	68

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS LAKE SITES

SOUTH-CENTRAL ALASKA--Continued

613150149554900 - BIG LK NW OF BURSTON IS NR WASILLA AK--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	SAMPLING DEPTH (M) (00098)	SPECIFIC CONDUCTANCE (UMHOS) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE (DEG C) (00010)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
MAY								
22...	1015	12.0	114	6.9	4.5	754	8.5	67
22...	1016	13.0	114	6.9	4.5	754	8.4	66
22...	1017	14.0	115	6.9	4.5	754	8.0	62
22...	1018	15.0	115	6.8	4.5	754	7.7	60
22...	1019	16.0	115	6.8	4.0	754	7.6	59
22...	1020	17.0	115	6.8	4.0	754	7.5	58
22...	1021	18.0	114	6.8	4.0	754	7.4	57
22...	1022	19.0	115	6.8	4.0	754	7.3	56
22...	1023	20.0	114	6.8	4.0	754	7.1	55
22...	1024	21.0	114	6.8	4.0	754	6.8	52
22...	1025	22.0	114	6.8	4.0	754	6.7	51
22...	1026	23.0	114	6.8	4.0	754	6.6	51
22...	1027	24.0	115	6.7	4.0	754	6.1	47
22...	1028	24.7	159	7.1	3.5	754	.0	0
JUN								
05...	1058	.10	111	7.2	15.0	749	10.8	109
05...	1059	.50	111	7.2	15.0	749	10.8	109
05...	1100	1.0	111	7.3	14.5	749	10.8	108
05...	1101	1.5	111	7.3	14.5	749	10.8	108
05...	1102	2.0	111	7.3	14.5	749	10.7	107
05...	1103	2.5	111	7.3	14.5	749	10.8	108
05...	1104	3.0	111	7.3	14.5	749	10.8	108
05...	1105	3.5	111	7.3	14.0	749	10.9	108
05...	1106	4.0	111	7.3	12.5	749	10.9	104
05...	1107	4.5	112	7.3	11.5	749	11.1	103
05...	1108	5.0	112	7.3	10.5	749	10.9	99
05...	1109	5.5	113	7.3	9.5	749	10.8	96
05...	1110	6.0	113	7.3	9.0	749	10.6	93
05...	1111	6.5	114	7.3	8.0	749	10.6	91
05...	1112	7.0	114	7.3	7.5	749	10.5	89
05...	1113	7.5	115	7.2	7.5	749	10.3	87
05...	1114	8.0	115	7.1	7.0	749	10.0	83
05...	1115	8.5	116	7.1	6.5	749	9.7	80
05...	1116	9.0	116	7.0	6.0	749	9.4	77
05...	1117	9.5	116	7.1	6.0	749	9.2	75
05...	1118	10.0	116	7.1	5.5	749	8.8	71
05...	1119	11.0	116	7.0	5.5	749	8.5	68
05...	1120	12.0	115	7.0	5.5	749	8.5	68
05...	1121	13.0	115	6.9	5.5	749	8.2	66
05...	1122	14.0	115	6.9	5.0	749	7.9	63
05...	1123	15.0	115	6.9	5.0	749	7.6	60
05...	1124	16.0	114	6.9	5.0	749	7.3	58
05...	1125	17.0	114	6.9	4.5	749	7.2	57
05...	1126	18.0	114	6.9	4.5	749	7.1	56
05...	1127	19.0	113	6.9	4.5	749	6.9	54
05...	1128	20.0	112	6.8	4.5	749	6.9	54
05...	1129	21.0	112	6.8	4.5	749	6.8	53
05...	1130	22.0	112	6.8	4.5	749	6.6	52
05...	1131	22.8	111	6.8	4.5	749	6.4	50
21...	1310	.10	109	7.3	17.0	768	10.2	105
21...	1311	1.0	110	7.4	17.0	768	10.1	103
21...	1312	2.0	109	7.4	16.5	768	10.1	103
21...	1313	3.0	109	7.4	16.5	768	10.1	102
21...	1314	4.0	109	7.4	16.0	768	10.1	102
21...	1315	4.5	108	7.4	16.0	768	10.1	102
21...	1316	5.0	108	7.4	15.5	768	10.1	100
21...	1317	5.5	112	7.3	11.5	768	10.8	98
21...	1318	6.0	112	7.3	10.0	768	10.7	94
21...	1319	6.5	112	7.3	9.5	768	10.7	93
21...	1320	7.0	112	7.3	9.0	768	10.6	91
21...	1321	7.5	112	7.2	8.5	768	10.3	87
21...	1322	8.0	112	7.2	8.0	768	10.2	86
21...	1323	8.5	113	7.2	7.5	768	9.8	81
21...	1324	9.0	112	7.2	7.0	768	9.5	78
21...	1325	9.5	112	7.1	7.0	768	9.3	76
21...	1326	10.0	112	7.1	6.5	768	9.2	75
21...	1327	11.0	112	7.1	6.5	768	9.0	73
21...	1328	12.0	111	7.0	6.5	768	8.7	70
21...	1329	13.0	111	7.0	6.0	768	8.4	67
21...	1330	14.0	110	7.0	6.0	768	8.0	64
21...	1331	15.0	110	7.0	6.0	768	7.9	63
21...	1332	16.0	110	7.0	5.5	768	6.9	54

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS LAKE SITES

SOUTH-CENTRAL ALASKA--Continued

613150149554900 - BIG LK NW OF BURSTON IS NR WASILLA AK--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	SAMPLING DEPTH (M) (00098)	SPECIFIC CONDUCTANCE (UMHOS) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE (DEG C) (00010)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
JUN								
21...	1333	17.0	109	7.0	5.0	768	6.7	52
21...	1334	18.0	109	6.9	5.0	768	6.6	51
21...	1335	19.0	109	6.9	5.0	768	6.4	50
21...	1336	20.0	108	6.9	5.0	768	6.2	48
21...	1337	21.0	107	6.9	5.0	768	6.0	46
21...	1338	22.0	107	6.8	5.0	768	5.7	44
21...	1339	23.0	106	6.8	5.0	768	5.3	41
21...	1340	23.9	115	6.7	5.0	768	4.6	36
JUL								
02...	1023	.10	108	7.3	17.0	762	9.9	102
02...	1024	.50	108	7.3	17.0	762	9.8	101
02...	1025	1.0	108	7.3	17.0	762	9.8	101
02...	1026	1.5	108	7.3	17.0	762	9.8	101
02...	1027	2.0	108	7.3	17.0	762	9.8	101
02...	1028	2.5	108	7.3	17.0	762	9.8	101
02...	1029	3.0	108	7.3	17.0	762	9.8	101
02...	1030	3.5	108	7.3	17.0	762	9.8	101
02...	1031	4.0	108	7.3	17.0	762	9.8	101
02...	1032	4.5	108	7.3	17.0	762	9.9	102
02...	1033	5.0	108	7.3	17.0	762	9.9	102
02...	1034	5.5	112	7.1	12.5	762	11.3	107
02...	1035	6.0	112	7.0	11.0	762	11.5	104
02...	1036	6.5	112	7.0	10.5	762	11.3	101
02...	1037	7.0	112	7.0	9.5	762	11.1	98
02...	1038	7.5	112	6.9	9.0	762	10.8	93
02...	1039	8.0	112	6.9	8.5	762	10.6	90
02...	1040	8.5	112	6.9	8.0	762	10.3	87
02...	1041	9.0	112	6.9	7.5	762	10.0	83
02...	1042	9.5	112	6.8	7.5	762	9.8	81
02...	1043	10.0	111	6.8	7.0	762	9.6	79
02...	1044	11.0	111	6.8	6.5	762	9.3	76
02...	1045	12.0	111	6.8	6.5	762	8.9	72
02...	1046	13.0	110	6.7	6.0	762	7.9	63
02...	1047	14.0	110	6.7	5.5	762	7.7	61
02...	1048	15.0	110	6.7	5.5	762	7.3	58
02...	1049	16.0	109	6.7	5.5	762	6.9	54
02...	1050	17.0	109	6.7	5.0	762	6.7	53
02...	1051	18.0	108	6.6	5.0	762	6.5	51
02...	1052	19.0	108	6.6	5.0	762	6.3	49
02...	1053	20.0	107	6.5	5.0	762	6.1	48
02...	1054	21.0	106	6.5	5.0	762	5.7	45
02...	1055	22.0	106	6.5	5.0	762	5.2	41
02...	1056	23.0	106	6.5	5.0	762	4.9	38
02...	1057	24.0	107	6.4	5.0	762	3.6	28
02...	1058	24.6	126	7.2	4.5	762	1.0	8
16...	0856	.10	110	7.3	18.5	747	9.8	106
16...	0857	.50	110	7.4	18.5	747	9.8	106
16...	0858	1.0	110	7.4	18.5	747	9.8	106
16...	0859	1.5	110	7.4	18.5	747	9.8	106
16...	0900	2.0	110	7.4	18.5	747	9.8	106
16...	0901	2.5	110	7.4	18.5	747	9.8	106
16...	0902	3.0	110	7.4	18.5	747	9.7	105
16...	0903	3.5	110	7.4	18.5	747	9.8	106
16...	0904	4.0	110	7.4	18.5	747	9.8	106
16...	0905	4.5	110	7.4	18.5	747	9.8	106
16...	0906	5.0	110	7.4	18.0	747	9.8	106
16...	0907	5.5	110	7.4	17.5	747	9.8	105
16...	0908	6.0	112	7.2	15.0	747	11.6	117
16...	0909	6.5	113	7.1	13.0	747	11.7	114
16...	0910	7.0	112	7.1	12.0	747	11.8	111
16...	0911	7.5	113	7.1	10.5	747	11.3	104
16...	0912	8.0	113	7.1	10.0	747	10.9	99
16...	0913	8.5	113	7.0	9.0	747	10.1	89
16...	0914	9.0	113	6.9	8.5	747	10.2	89
16...	0915	9.5	112	6.9	8.5	747	10.1	88
16...	0916	10.0	112	6.9	8.0	747	9.7	83
16...	0917	11.0	112	6.9	7.5	747	9.1	77
16...	0918	12.0	112	6.8	6.5	747	8.3	69
16...	0919	13.0	112	6.8	6.0	747	7.2	59
16...	0920	14.0	111	6.8	6.0	747	6.7	55
16...	0921	15.0	111	6.8	5.5	747	6.1	50
16...	0922	16.0	111	6.7	5.5	747	5.3	43

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS LAKE SITES

SOUTH-CENTRAL ALASKA--Continued

613150149554900 - BIG LK NW OF BURSTON IS NR WASILLA AK--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	SAM-PLING DEPTH (M) (00098)	SPE-CIFIC CON-DUCT-ANCE (UMHOS) (00095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)
JUL								
16...	0923	17.0	110	6.7	5.5	747	5.1	41
16...	0924	18.0	109	6.7	5.5	747	5.4	43
16...	0925	19.0	109	6.7	5.0	747	5.1	41
16...	0926	20.0	108	6.7	5.0	747	5.0	40
16...	0927	21.0	108	6.7	5.0	747	4.8	38
16...	0928	22.0	107	6.6	5.0	747	4.5	36
16...	0929	23.0	107	6.6	5.0	747	4.1	33
16...	0930	24.2	137	7.0	5.0	747	.0	0
31...	0944	.10	112	7.4	17.5	758	10.0	105
31...	0945	.50	112	7.5	17.5	758	10.0	105
31...	0946	1.0	112	7.5	17.5	758	9.9	104
31...	0947	1.5	112	7.5	17.5	758	9.9	104
31...	0948	2.0	112	7.5	17.5	758	9.9	104
31...	0949	2.5	111	7.5	17.5	758	9.9	104
31...	0950	3.0	111	7.5	17.5	758	9.9	104
31...	0951	3.5	111	7.5	17.5	758	9.9	104
31...	0952	4.0	111	7.5	17.5	758	9.9	104
31...	0953	4.5	111	7.5	17.5	758	9.9	104
31...	0954	5.0	111	7.5	17.5	758	9.9	104
31...	0955	5.5	111	7.5	17.0	758	9.9	103
31...	0956	6.0	112	7.5	16.5	758	11.1	114
31...	0957	6.5	115	7.3	14.0	758	11.9	116
31...	0958	7.0	115	7.1	12.0	758	11.7	110
31...	0959	7.5	114	7.1	11.0	758	11.5	105
31...	1000	8.0	115	7.1	10.5	758	11.2	100
31...	1001	8.5	115	7.0	9.5	758	10.7	95
31...	1002	9.0	115	7.0	9.0	758	10.2	89
31...	1003	9.5	114	7.0	8.5	758	9.8	84
31...	1004	10.0	114	6.9	8.0	758	9.1	77
31...	1005	11.0	113	6.9	7.5	758	8.1	68
31...	1006	12.0	113	6.8	7.0	758	7.5	62
31...	1007	13.0	113	6.8	6.5	758	6.9	56
31...	1008	14.0	112	6.8	6.0	758	6.4	52
31...	1009	15.0	112	6.8	6.0	758	5.7	46
31...	1010	16.0	111	6.7	5.5	758	5.1	41
31...	1011	17.0	111	6.7	5.5	758	4.8	38
31...	1012	18.0	110	6.7	5.5	758	4.3	34
31...	1013	19.0	109	6.7	5.0	758	3.8	30
31...	1014	20.0	109	6.6	5.0	758	3.5	28
31...	1015	21.0	109	6.6	5.0	758	3.1	24
31...	1016	22.0	108	6.6	5.0	758	2.7	21
31...	1017	23.0	108	6.6	5.0	758	2.5	20
31...	1018	24.0	117	6.6	5.0	758	.0	0
31...	1019	24.7	148	6.9	5.0	758	.0	0
AUG								
13...	1000	.10	112	7.4	18.0	759	9.8	104
13...	1001	.50	112	7.4	18.0	759	9.8	104
13...	1002	1.0	112	7.4	18.0	759	9.8	104
13...	1003	1.5	112	7.4	18.0	759	9.7	103
13...	1004	2.0	112	7.4	18.0	759	9.7	103
13...	1005	2.5	112	7.4	18.0	759	9.7	103
13...	1006	3.0	112	7.4	18.0	759	9.7	103
13...	1007	3.5	112	7.4	18.0	759	9.7	103
13...	1008	4.0	112	7.5	18.0	759	9.7	103
13...	1009	4.5	112	7.5	18.0	759	9.7	103
13...	1010	5.0	112	7.5	18.0	759	9.7	103
13...	1011	5.5	112	7.4	17.5	759	10.8	113
13...	1012	6.0	114	7.3	16.0	759	11.4	116
13...	1013	6.5	115	7.2	14.5	759	11.7	115
13...	1014	7.0	115	7.0	12.5	759	11.7	110
13...	1015	7.5	115	7.0	11.5	759	11.1	102
13...	1016	8.0	115	6.9	10.5	759	10.9	98
13...	1017	8.5	115	6.9	10.0	759	10.6	95
13...	1018	9.0	114	6.9	9.5	759	10.0	88
13...	1019	9.5	114	6.9	9.0	759	9.3	80
13...	1020	10.0	114	6.8	8.5	759	8.6	73
13...	1021	11.0	113	6.7	8.0	759	7.9	67
13...	1022	12.0	113	6.7	7.5	759	7.2	60
13...	1023	13.0	113	6.7	7.0	759	6.6	54
13...	1024	14.0	112	6.7	6.5	759	6.4	53
13...	1025	15.0	112	6.7	6.5	759	5.7	46
13...	1026	16.0	112	6.6	6.0	759	4.7	38

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS LAKE SITES

SOUTH-CENTRAL ALASKA--Continued

613150149554900 - BIG LK NW OF BURSTON IS NR WASILLA AK--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	SAMPLING DEPTH (M) (00098)	SPECIFIC CONDUCTANCE (UMHOS) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE (DEG C) (00010)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
AUG								
13...	1027	17.0	111	6.6	5.5	759	3.8	30
13...	1028	18.0	111	6.5	5.5	759	3.0	24
13...	1029	19.0	110	6.5	5.0	759	2.5	20
13...	1030	20.0	110	6.5	5.0	759	1.9	15
13...	1031	21.0	110	6.5	5.0	759	1.6	13
13...	1032	22.0	110	6.5	5.0	759	1.2	9
13...	1033	23.0	112	6.5	5.0	759	.0	0
29...	0858	.10	111	7.1	13.0	754	10.0	96
29...	0859	.50	111	7.1	13.0	754	10.0	96
29...	0900	1.0	111	7.1	13.0	754	10.0	96
29...	0901	1.5	111	7.1	13.0	754	10.0	96
29...	0902	2.0	111	7.1	13.0	754	10.0	96
29...	0903	2.5	111	7.1	13.0	754	10.0	96
29...	0904	3.0	111	7.1	13.0	754	10.0	96
29...	0905	3.5	111	7.1	13.0	754	10.0	96
29...	0906	4.0	111	7.1	13.0	754	10.0	96
29...	0907	4.5	111	7.1	13.0	754	10.0	96
29...	0908	5.0	111	7.1	13.0	754	10.0	96
29...	0909	5.5	111	7.1	13.0	754	10.0	96
29...	0910	6.0	111	7.1	13.0	754	10.0	96
29...	0911	6.5	111	7.1	13.0	754	9.9	95
29...	0912	7.0	111	7.1	13.0	754	9.9	95
29...	0913	7.5	111	7.1	13.0	754	9.9	95
29...	0914	8.0	110	7.0	13.0	754	9.8	94
29...	0915	8.5	110	7.0	12.5	754	9.7	92
29...	0916	9.0	111	6.9	12.0	754	9.4	88
29...	0917	9.5	112	6.7	11.5	754	8.9	82
29...	0918	10.0	112	6.6	10.5	754	8.3	75
29...	0919	11.0	113	6.6	8.5	754	6.8	59
29...	0920	12.0	112	6.5	8.0	754	6.3	54
29...	0921	13.0	112	6.5	8.0	754	6.3	53
29...	0922	14.0	111	6.5	7.5	754	6.1	51
29...	0923	15.0	111	6.5	7.0	754	5.8	49
29...	0924	16.0	111	6.5	6.5	754	4.5	37
29...	0925	17.0	110	6.4	6.0	754	3.7	30
29...	0926	18.0	110	6.4	5.5	754	3.0	24
29...	0927	19.0	109	6.4	5.5	754	2.4	19
29...	0928	20.0	109	6.4	5.5	754	2.0	16
29...	0929	21.0	109	6.4	5.5	754	1.9	15
29...	0930	22.0	108	6.4	5.5	754	1.7	14
29...	0931	22.5	121	6.4	5.5	754	.9	7
SEP								
10...	1050	.10	112	6.9	13.5	753	10.6	103
10...	1051	.50	112	7.0	13.5	753	10.4	101
10...	1052	1.0	112	7.0	13.5	753	10.4	101
10...	1053	1.5	112	7.0	13.5	753	10.4	101
10...	1054	2.0	112	7.0	13.5	753	10.3	100
10...	1055	2.5	112	7.0	13.5	753	10.3	100
10...	1056	3.0	112	7.1	13.5	753	10.3	100
10...	1057	3.5	112	7.1	13.5	753	10.3	100
10...	1058	4.0	112	7.1	13.5	753	10.3	100
10...	1059	4.5	112	7.1	13.5	753	10.3	100
10...	1100	5.0	112	7.1	13.5	753	10.3	100
10...	1101	5.5	112	7.1	13.5	753	10.3	100
10...	1102	6.0	112	7.1	13.0	753	10.2	98
10...	1103	6.5	111	7.0	13.0	753	10.2	98
10...	1104	7.0	111	7.0	13.0	753	10.2	98
10...	1105	7.5	111	7.0	13.0	753	10.1	97
10...	1106	8.0	111	7.0	12.5	753	10.0	95
10...	1107	8.5	111	6.9	12.5	753	9.7	92
10...	1108	9.0	111	6.8	12.0	753	9.3	88
10...	1109	9.5	111	6.7	12.0	753	9.1	85
10...	1110	10.0	112	6.6	11.5	753	8.5	79
10...	1111	11.0	113	6.4	10.0	753	7.1	63
10...	1112	12.0	114	6.4	8.5	753	6.0	52
10...	1113	13.0	113	6.4	8.0	753	5.8	49
10...	1114	14.0	112	6.4	7.0	753	5.2	44
10...	1115	15.0	112	6.4	6.5	753	4.5	37
10...	1116	16.0	111	6.4	6.5	753	3.8	31
10...	1117	17.0	111	6.4	6.0	753	3.0	24
10...	1118	18.0	110	6.4	5.5	753	2.3	19
10...	1119	19.0	110	6.3	5.5	753	2.2	18
10...	1120	20.0	109	6.3	5.5	753	1.9	15

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS LAKE SITES

SOUTH-CENTRAL ALASKA--Continued

613150149554900 - BIG LK NW OF BURSTON IS NR WASILLA AK--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	SAMPLING DEPTH (M) (00098)	SPECIFIC CONDUCTANCE (UMHOS) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE (DEG C) (00010)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
SEP								
10...	1121	21.0	109	6.3	5.5	753	1.6	13
10...	1122	22.0	108	6.3	5.5	753	1.4	11
10...	1123	23.0	109	6.3	5.5	753	.7	6
10...	1124	24.0	111	6.3	5.5	753	.0	0
10...	1125	24.3	137	6.6	5.5	753	.0	0

DATE	TIME	TEMPERATURE, AIR (DEG C) (00020)	CLOUD COVER (PERCENT) (00032)	WIND SPEED (MILES PER HOUR) (00035)	WIND DIRECTION (DEG. FROM TRUE NORTH) (00036)	LIGHT INCID. 400-700NM INTENS. (U-EINS /SQM/S) (00200)	LIGHT, ATTENUATION COEFFICIENT (ALPHA/ METER) (70971)	ICE THICKNESS METERS (82131)	SNOW DEPTH INCHES (82300)	LIGHT DEPTH TO 1 % OF SURFACE LIGHT METERS (85328)
OCT										
08...	1200	.0	90	.0	--	--	--	.00	.00	--
DEC										
20...	1126	-3.0	100	.0	--	17.8	.47	.30	3.9	4.8
JAN										
18...	1105	-5.0	100	2.0	0	32.0	.32	.41	6.7	4.0
FEB										
29...	1043	-5.0	10	.0	--	420	.65	.57	12	2.3
MAR										
07...	1148	4.0	60	1.0	0	--	--	.51	6.3	--
27...	1057	5.0	100	.0	--	359	.30	.60	.80	10
MAY										
22...	1029	8.0	100	.0	--	402	.40	.00	.00	12
JUN										
05...	1132	18.5	0	.0	--	1370	.41	--	--	12
19...	1051	14.5	0	2.0	180	1230	.35	--	--	13
21...	1041	21.0	10	2.0	225	--	--	--	--	--
JUL										
02...	1059	14.0	100	.0	--	648	.32	--	--	15
16...	0931	17.5	80	25	225	822	.32	--	--	15
31...	1020	18.0	80	5.0	180	818	.33	--	--	14
AUG										
13...	1034	16.0	90	5.0	0	460	.34	--	--	14
29...	0932	6.5	0	2.0	315	550	.41	--	--	11
SEP										
10...	1126	12.0	0	2.0	0	956	.37	--	--	12

DATE	TIME	SAMPLING DEPTH (M) (00098)	HARDNESS (MG/L AS CACO3) (00900)	HARDNESS, NONCARBONATE (MG/L CACO3) (00902)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	ALKALINITY, CARBONATE IT-FLD (MG/L - CACO3) (99430)
MAR									
27...	1100	2.0	54	0	17	2.9	2.1	.70	57
27...	1115	23.0	60	0	19	3.1	2.2	1.1	59
MAY									
22...	1030	23.0	58	0	18	3.1	2.1	.40	--
24...	1000	2.0	51	0	16	2.7	1.9	.30	--

DATE	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	BORON, DISSOLVED (UG/L AS B) (01020)	IRON, DISSOLVED (UG/L AS FE) (01046)
MAR								
27...	2.0	1.6	<.10	6.3	69	69	10	<3
27...	2.2	1.5	<.10	9.5	82	78	<10	<3
MAY								
22...	2.2	1.6	<.10	8.5	83	71	30	5
24...	1.9	1.5	<.10	6.0	69	62	30	5

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS LAKE SITES

SOUTH-CENTRAL ALASKA--Continued

613150149554900 - BIG LK NW OF BURSTON IS NR WASILLA AK--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	SAMPLING DEPTH (M) (00098)	ALKALINITY LAB (MG/L AS CACO3) *(90410)	SILICA, DISSOLVED (MG/L AS SIO2) *(00955)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) *(00631)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) *(00608)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N) *(00625)	PHOSPHORUS, TOTAL (MG/L AS P) *(00665)
DEC								
20...	1130	1.0	--	--	--	--	--	--
20...	1131	2.0	54	6.2	.00	.014	.19	.006
20...	1132	3.0	--	--	--	--	--	--
20...	1133	4.0	--	--	--	--	--	--
20...	1134	5.0	--	--	--	--	--	--
20...	1135	8.0	56	6.3	.00	.020	.18	.008
20...	1136	15.0	--	--	--	--	--	--
20...	1137	16.0	56	6.6	.01	.028	.20	.009
20...	1138	23.0	62	7.5	.03	.049	.20	.015
JAN								
18...	1110	1.0	--	--	--	--	--	--
18...	1111	2.0	61	6.0	.02	.006	.23	.008
18...	1112	3.0	--	--	--	--	--	--
18...	1113	4.0	--	--	--	--	--	--
18...	1114	5.0	--	--	--	--	--	--
18...	1115	6.0	--	--	--	--	--	--
18...	1116	7.0	--	--	--	--	--	--
18...	1117	8.0	60	6.0	.03	.005	.21	.006
18...	1118	10.0	--	--	--	--	--	--
18...	1119	16.0	62	6.8	.05	.009	.19	.010
18...	1120	23.0	64	8.6	.14	.008	.22	.018
FEB								
29...	1045	2.0	68	6.5	.03	.002	.17	.009
29...	1046	4.0	--	--	--	--	--	--
29...	1047	6.0	--	--	--	--	--	--
29...	1048	8.0	65	6.6	.05	.002	.14	.010
29...	1049	10.0	--	--	--	--	--	--
29...	1050	16.0	65	7.8	.08	.003	.14	.010
29...	1051	20.0	67	8.5	.11	.004	.15	.014
MAR								
27...	1120	2.0	68	6.3	.00	.003	.16	.009
27...	1121	4.0	--	--	--	--	--	--
27...	1122	6.0	--	--	--	--	--	--
27...	1123	8.0	67	5.9	.05	.003	.14	.008
27...	1124	10.0	--	--	--	--	--	--
27...	1125	16.0	70	7.4	.08	.005	.14	.010
27...	1126	23.0	74	9.2	.18	.002	.13	.018
MAY								
22...	1040	2.0	65	6.1	.00	.002	.19	.010
22...	1041	4.0	--	--	--	--	--	--
22...	1042	6.0	--	--	--	--	--	--
22...	1043	8.0	--	--	--	--	--	--
22...	1044	10.0	69	7.4	.01	.005	.19	.011
22...	1045	12.0	--	--	--	--	--	--
22...	1046	16.0	70	7.8	.03	.008	.19	.008
22...	1047	23.0	69	8.4	.04	.020	.20	.010
JUN								
05...	1135	2.0	66	6.0	.00	.002	.17	.008
05...	1136	4.0	--	--	--	--	--	--
05...	1137	6.0	--	--	--	--	--	--
05...	1138	8.0	--	--	--	--	--	--
05...	1139	10.0	58	7.2	.00	.003	.23	.018
05...	1140	12.0	--	--	--	--	--	--
05...	1141	14.0	--	--	--	--	--	--
05...	1142	16.0	60	7.5	.00	.004	.18	.013
05...	1143	22.0	59	7.7	.02	.017	.18	.013
19...	1100	2.0	52	5.5	.00	.003	.18	.006
19...	1101	4.0	--	--	--	--	--	--
19...	1102	6.0	--	--	--	--	--	--
19...	1103	7.0	--	--	--	--	--	--
19...	1104	8.0	--	--	--	--	--	--
19...	1105	9.0	--	--	--	--	--	--
19...	1106	10.0	57	6.6	.00	.003	.20	.013
19...	1107	12.0	--	--	--	--	--	--
19...	1108	16.0	57	7.5	.02	.009	.20	.012
19...	1109	23.0	60	8.2	.03	.039	.23	.018
JUL								
02...	1100	2.0	55	5.5	.00	.001	.17	.007
02...	1101	4.0	--	--	--	--	--	--
02...	1102	6.0	--	--	--	--	--	--
02...	1103	8.0	--	--	--	--	--	--

* ANALYZED BY ALASKA DEPARTMENT OF FISH AND GAME LABORATORY, SOLDOTNA, ALASKA

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS LAKE SITES

SOUTH-CENTRAL ALASKA--Continued

613150149554900 - BIG LK NW OF BURSTON IS NR WASILLA AK--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	SAMPLING DEPTH (M) (00098)	ALKALINITY LAB (MG/L AS CACO3) *(90410)	SILICA, DISSOLVED (MG/L AS SIO2) *(00955)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) *(00631)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) *(00608)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N) *(00625)	PHOSPHORUS, TOTAL (MG/L AS P) *(00665)
JUL								
02...	1104	10.0	54	6.5	.00	.003	.18	.008
02...	1105	14.0	--	--	--	--	--	--
02...	1106	16.0	58	7.6	.01	.007	.20	.012
02...	1107	23.5	56	8.1	.01	.020	.23	.016
16...	0940	2.0	53	5.3	.00	.006	.20	.006
16...	0941	4.0	--	--	--	--	--	--
16...	0942	5.0	--	--	--	--	--	--
16...	0943	6.0	--	--	--	--	--	--
16...	0944	8.0	--	--	--	--	--	--
16...	0945	10.0	54	6.8	.00	.002	.21	.011
16...	0946	12.0	--	--	--	--	--	--
16...	0947	13.0	--	--	--	--	--	--
16...	0948	14.0	--	--	--	--	--	--
16...	0949	16.0	54	7.9	.01	.006	.23	.012
16...	0950	23.0	52	8.6	.07	.012	.27	.022
30...	1030	2.0	64	5.4	.00	<.001	.21	.007
30...	1031	5.0	--	--	--	--	--	--
30...	1032	6.0	--	--	--	--	--	--
30...	1033	7.0	--	--	--	--	--	--
30...	1034	8.0	--	--	--	--	--	--
30...	1035	9.0	--	--	--	--	--	--
30...	1036	10.0	60	7.1	.00	<.001	.20	.009
30...	1037	12.0	--	--	--	--	--	--
30...	1038	14.0	--	--	--	--	--	--
30...	1039	16.0	62	8.6	.05	<.001	.16	.010
30...	1040	23.0	64	10	.14	.026	.20	.028
AUG								
13...	1040	2.0	54	5.3	.00	<.001	.20	.017
13...	1041	5.0	--	--	--	--	--	--
13...	1042	6.0	--	--	--	--	--	--
13...	1043	7.0	--	--	--	--	--	--
13...	1044	8.0	--	--	--	--	--	--
13...	1045	9.0	--	--	--	--	--	--
13...	1046	10.0	51	6.9	.00	<.001	.24	.019
13...	1047	12.0	--	--	--	--	--	--
13...	1048	14.0	--	--	--	--	--	--
13...	1049	16.0	55	7.5	.00	.002	.20	.015
13...	1050	23.0	57	11	.07	.058	.36	.072
29...	0940	2.0	60	4.9	.00	<.001	.25	.024
29...	0941	5.0	--	--	--	--	--	--
29...	0942	8.0	--	--	--	--	--	--
29...	0943	9.0	--	--	--	--	--	--
29...	0944	10.0	56	5.8	.00	.004	.24	.018
29...	0945	12.0	--	--	--	--	--	--
29...	0946	14.0	--	--	--	--	--	--
29...	0947	16.0	59	8.3	.04	.003	.27	.012
29...	0948	21.0	55	10	.13	.014	.21	.039
SEP								
10...	1130	2.0	52	6.0	.00	.001	.28	.018
10...	1131	6.0	--	--	--	--	--	--
10...	1132	7.0	--	--	--	--	--	--
10...	1133	8.0	--	--	--	--	--	--
10...	1134	9.0	--	--	--	--	--	--
10...	1135	10.0	54	5.7	.00	.001	.29	.012
10...	1136	12.0	--	--	--	--	--	--
10...	1137	13.0	--	--	--	--	--	--
10...	1138	14.0	--	--	--	--	--	--
10...	1139	16.0	57	8.7	.04	<.001	.19	--
10...	1140	23.0	56	9.0	.06	.003	.26	--

DATE	PHOSPHORUS, DISSOLVED (MG/L AS P) *(00666)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P) *(00671)	CARBON, INORGANIC, TOTAL (MG/L AS C) (00685)	IRON, DISSOLVED (UG/L AS FE) *(01046)	CHLOROPHYLL A FLUOROMETRIC METHOD CORR. (UG/L) (32209)	NITROGEN NITRATE DISSOLV (UG/L) (91003)	PHOSPHORUS, ORTHO, DISSOLVED (UG/L AS P) (91004)
DEC							
20...	--	--	--	--	.540	--	--

YZED BY ALASKA DEPARTMENT OF FISH AND GAME LABORATORY, SOLDOTNA, ALASKA

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS LAKE SITES

SOUTH-CENTRAL ALASKA--Continued

613150149554900 - BIG LK NW OF BURSTON IS NR WASILLA LK--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	PHOSPHORUS, DISSOLVED (MG/L AS P) *(00666)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P) *(00671)	CARBON, INORGANIC, TOTAL (MG/L AS C) (00685)	IRON, DISSOLVED (UG/L AS FE) *(01046)	CHLOROPHYLL A FLUOROMETRIC METHOD CORR. (UG/L) (32209)	NITROGEN NITRATE DISSOLV (UG/L) (91003)	PHOSPHORUS, ORTHO, DISSOLVED (UG/L AS P) (91004)
DEC							
20...	.006	.004	15	--	.860	3.0	4.1
20...	--	--	--	--	1.26	--	--
20...	--	--	--	--	1.27	--	--
20...	--	--	--	--	1.81	--	--
20...	.007	.006	--	--	1.11	6.6	5.9
20...	--	--	--	--	.930	--	--
20...	.008	.007	--	--	--	12.2	6.6
20...	.012	.013	--	50	--	34.2	13.4
JAN							
18...	--	--	--	--	.540	--	--
18...	.006	.005	15	--	.680	15.0	5.1
18...	--	--	--	--	.480	--	--
18...	--	--	--	--	.430	--	--
18...	--	--	--	--	.350	--	--
18...	--	--	--	--	.390	--	--
18...	--	--	--	--	.380	--	--
18...	.005	.006	--	--	.380	26.2	5.6
18...	--	--	--	--	.380	--	--
18...	.008	.009	--	<10	--	52.8	8.6
18...	.017	.017	--	--	--	138	16.8
FEB							
29...	.007	.006	15	<10	.810	31.9	6.5
29...	--	--	--	--	.370	--	--
29...	--	--	--	--	.580	--	--
29...	.008	.007	--	<10	.140	48.6	7.2
29...	--	--	--	--	.330	--	--
29...	.012	.012	--	20	--	78.4	11.9
29...	.015	.015	--	20	--	106	14.6
MAR							
27...	.003	.002	14	<10	2.80	1.7	1.8
27...	--	--	--	--	2.40	--	--
27...	--	--	--	--	2.60	--	--
27...	.004	.003	--	<10	.470	47.1	2.9
27...	--	--	--	--	.310	--	--
27...	.008	.008	--	<10	--	81.0	7.8
27...	.014	.013	--	30	--	177	13.2
MAY							
22...	.002	.002	13	<10	.860	2.4	2.0
22...	--	--	--	--	1.45	--	--
22...	--	--	--	--	2.88	--	--
22...	--	--	--	--	3.77	--	--
22...	.003	.002	17	20	3.51	13.4	2.0
22...	--	--	--	--	4.00	--	--
22...	.002	.002	--	20	--	28.1	2.0
22...	.002	.002	--	30	--	40.5	2.3
JUN							
05...	.002	.001	13	20	.870	1.8	1.3
05...	--	--	--	--	.830	--	--
05...	--	--	--	--	1.20	--	--
05...	--	--	--	--	2.62	--	--
05...	.002	.002	16	20	6.41	2.6	2.0
05...	--	--	--	--	5.58	--	--
05...	--	--	--	--	4.00	--	--
05...	.003	.002	--	30	2.93	8.4	2.1
05...	.003	.002	--	40	--	18.4	2.3
19...	.002	.002	11	20	.530	3.2	1.8
19...	--	--	--	--	.620	--	--
19...	--	--	--	--	.900	--	--
19...	--	--	--	--	1.10	--	--
19...	--	--	--	--	1.40	--	--
19...	--	--	--	--	1.92	--	--
19...	.003	.003	13	40	2.54	3.1	2.6
19...	--	--	--	--	3.69	--	--
19...	.004	.004	--	30	--	17.4	3.7
19...	.006	.006	--	80	--	27.0	6.3
JUL							
02...	.004	.002	13	20	1.13	3.2	2.0
02...	--	--	--	--	1.27	--	--
02...	--	--	--	--	1.73	--	--
02...	--	--	--	--	1.83	--	--
02...	.003	.002	15	20	1.75	3.1	2.1
02...	--	--	--	--	2.12	--	--

* ANALYZED BY ALASKA DEPARTMENT OF FISH AND GAME LABORATORY, SOLDOTNA, ALASKA

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS LAKE SITES

SOUTH-CENTRAL ALASKA--Continued

613150149554900 - BIG LK NW OF BURSTON IS NR WASILLA LK--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	PHOS-PHORUS, DIS-SOLVED (MG/L AS P) *(00666)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P) *(00671)	CARBON, INOR-GANIC, TOTAL (MG/L AS C) (00685)	IRON, DIS-SOLVED (UG/L AS FE) *(01046)	CHLORO-PHYLL A FLUORO-METRIC METHOD CORR. (UG/L) (32209)	NITRO-GEN NITRATE DISSOLV (UG/L) (91003)	PHOS-PHORUS, ORTHO, DIS-SOLVED (UG/L AS P) (91004)
JUL							
02...	.004	.003	--	20	--	10.4	2.9
02...	.005	.005	--	40	--	10.8	4.6
16...	.002	.002	15	<10	1.47	5.2	1.6
16...	--	--	--	--	1.18	--	--
16...	--	--	--	--	1.15	--	--
16...	--	--	--	--	1.52	--	--
16...	--	--	--	--	1.75	--	--
16...	.003	.002	16	<10	1.70	5.2	2.5
16...	--	--	--	--	1.70	--	--
16...	--	--	--	--	1.70	--	--
16...	--	--	--	--	1.49	--	--
16...	.003	.003	--	30	1.52	14.3	3.4
16...	.014	.015	--	40	--	73.7	15.4
30...	.003	.002	13	<10	1.49	7.4	2.0
30...	--	--	--	--	1.73	--	--
30...	--	--	--	--	1.83	--	--
30...	--	--	--	--	1.41	--	--
30...	--	--	--	--	2.88	--	--
30...	--	--	--	--	2.41	--	--
30...	.003	.002	14	<10	2.02	7.4	2.0
30...	--	--	--	--	2.78	--	--
30...	--	--	--	--	1.07	--	--
30...	.003	.003	--	20	.880	46.7	3.2
30...	.008	.010	--	80	--	140	10.4
AUG							
13...	.003	.002	12	70	1.28	5.5	1.7
13...	--	--	--	--	1.23	--	--
13...	--	--	--	--	1.96	--	--
13...	--	--	--	--	2.28	--	--
13...	--	--	--	--	2.46	--	--
13...	--	--	--	--	2.15	--	--
13...	.003	.002	13	210	2.04	5.5	2.5
13...	--	--	--	--	2.30	--	--
13...	--	--	--	--	1.49	--	--
13...	.003	.003	--	130	1.68	9.4	2.6
13...	.027	.015	--	240	--	73.0	15.1
29...	.004	.002	13	20	1.44	6.7	1.6
29...	--	--	--	--	1.39	--	--
29...	--	--	--	--	1.49	--	--
29...	--	--	--	--	1.75	--	--
29...	.002	.002	15	30	1.86	8.4	1.6
29...	--	--	--	--	1.62	--	--
29...	--	--	--	--	1.52	--	--
29...	.004	.003	--	20	1.00	43.8	2.7
29...	.010	.014	--	80	--	130	13.8
SEP							
10...	.003	.002	15	30	1.41	5.2	1.6
10...	--	--	--	--	1.61	--	--
10...	--	--	--	--	1.87	--	--
10...	--	--	--	--	2.28	--	--
10...	--	--	--	--	2.45	--	--
10...	.003	.002	16	40	2.49	5.8	1.7
10...	--	--	--	--	1.74	--	--
10...	--	--	--	--	1.57	--	--
10...	--	--	--	--	1.47	--	--
10...	.016	.003	.003	40	1.09	35.4	2.6
10...	.019	.005	.005	40	--	56.9	4.8

* ANALYZED BY ALASKA DEPARTMENT OF FISH AND GAME LABORATORY, SOLDOTNA, ALASKA

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS LAKE SITES

SOUTH-CENTRAL ALASKA--Continued

613206149505800 - BIG LK E OF HEARN IS NR WASILLA AK

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	SAMPLING DEPTH (M) (00098)	SPECIFIC CONDUCTANCE (UMHOS) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE (DEG C) (00010)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
MAR								
07...	1330	.10	124	7.2	.0	758	11.8	82
07...	1331	1.0	123	7.2	.5	758	11.3	79
07...	1332	2.0	123	7.1	1.5	758	10.5	75
07...	1333	3.0	122	7.1	2.0	758	10.0	72
07...	1334	4.0	121	7.1	2.0	758	9.5	69
07...	1335	5.0	120	7.1	2.5	758	9.4	69
07...	1336	6.0	119	7.0	3.0	758	8.9	66
07...	1337	7.0	118	7.0	3.0	758	8.0	60
07...	1338	8.0	120	6.9	3.5	758	5.7	43
07...	1339	9.0	122	6.8	3.5	758	4.7	35
07...	1340	10.0	123	6.8	3.5	758	3.9	30
07...	1341	11.0	123	6.8	3.5	758	3.4	26
07...	1342	12.0	126	6.7	3.5	758	3.0	23
07...	1343	13.0	128	6.7	3.5	758	2.5	19
07...	1344	13.2	152	6.6	4.0	758	.0	0
JUN								
21...	1125	.10	110	7.3	17.5	768	10.1	105
21...	1126	1.0	110	7.3	17.5	768	10.1	105
21...	1127	2.0	110	7.3	17.5	768	10.1	105
21...	1128	3.0	110	7.3	17.5	768	10.1	104
21...	1129	4.0	109	7.3	17.0	768	10.0	103
21...	1130	5.0	110	7.3	14.5	768	10.5	102
21...	1131	6.0	112	7.2	11.0	768	11.2	101
21...	1132	7.0	112	7.2	9.5	768	10.9	95
21...	1133	8.0	112	7.1	9.0	768	10.6	91
21...	1134	9.0	111	7.1	8.5	768	10.0	85
21...	1135	10.0	112	6.9	7.5	768	8.0	66
21...	1136	11.0	113	6.9	6.5	768	5.5	44
21...	1137	12.0	112	6.8	6.0	768	4.4	35
21...	1138	13.0	117	6.7	5.5	768	1.6	13
21...	1139	13.8	147	6.7	5.5	768	.0	0

DATE	TIME	TEMPERATURE, AIR (DEG C) (00020)	CLOUD COVER (PERCENT) (00032)	WIND SPEED (MILES PER HOUR) (00035)	WIND DIRECTION (DEG. FROM TRUE NORTH) (00036)	ICE THICKNESS METERS (82131)	SNOW DEPTH INCHES (82300)
MAR							
07...	1345	3.0	60	.0	--	.75	7.5
JUN							
21...	1140	21.0	50	2.0	135	--	--

613208149570900 - BIG LK W OF HULENS POINT NR WASILLA AK

DATE	TIME	SAMPLING DEPTH (M) (00098)	SPECIFIC CONDUCTANCE (UMHOS) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE (DEG C) (00010)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
MAR								
07...	1030	.10	121	7.2	.5	758	12.3	85
07...	1031	1.0	119	7.3	1.0	758	11.8	83
07...	1032	2.0	116	7.2	2.0	758	11.1	80
07...	1033	3.0	115	7.2	2.0	758	11.0	80
07...	1034	4.0	114	7.2	2.5	758	10.6	78
07...	1035	5.0	113	7.2	2.5	758	10.5	77
07...	1036	6.0	113	7.2	2.5	758	9.9	73
07...	1037	7.0	112	7.2	2.5	758	9.4	69
07...	1038	8.0	112	7.1	2.0	758	8.7	63
07...	1039	9.0	112	7.1	3.0	758	8.2	61
07...	1040	10.0	112	7.0	3.0	758	7.2	54
07...	1041	11.0	112	7.0	3.0	758	6.5	49
07...	1042	12.0	114	6.9	3.5	758	4.2	32

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS LAKE SITES

SOUTH-CENTRAL ALASKA--Continued

613208149570900 - BIG LK W OF HULENS POINT NR WASILLA AK--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	SAMPLING DEPTH (M) (00098)	SPECIFIC CONDUCTANCE (UMHOS) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE (DEG C) (00010)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
MAR								
07...	1043	13.0	114	6.8	3.5	758	1.4	11
07...	1044	13.5	152	6.8	3.5	758	.0	0
JUN								
21...	1210	.10	109	7.3	17.0	768	10.0	103
21...	1211	1.0	109	7.4	17.0	768	10.0	102
21...	1212	2.0	109	7.4	16.5	768	10.0	102
21...	1213	3.0	109	7.4	16.5	768	10.1	102
21...	1214	4.0	109	7.4	16.0	768	10.1	101
21...	1215	5.0	109	7.4	14.5	768	10.2	100
21...	1216	6.0	112	7.2	11.5	768	10.9	99
21...	1217	7.0	113	7.2	8.5	768	10.2	86
21...	1218	8.0	113	7.2	7.5	768	9.6	80
21...	1219	9.0	113	7.1	7.0	768	8.9	72
21...	1220	10.0	112	7.1	7.0	768	8.8	72
21...	1221	11.0	112	7.1	6.5	768	8.6	70
21...	1222	12.0	112	7.0	6.0	768	7.0	56
21...	1223	13.0	111	7.0	5.5	768	6.1	48
21...	1224	14.0	112	6.9	5.5	768	3.3	26
21...	1225	14.1	126	6.7	5.5	768	1.5	12

DATE	TIME	TEMPERATURE, AIR (DEG C) (00020)	CLOUD COVER (PERCENT) (00032)	WIND SPEED (MILES PER HOUR) (00035)	ICE THICKNESS METERS (82131)	SNOW DEPTH INCHES (82300)
MAR						
07...	1045	3.0	50	.0	.71	5.1
JUN						
21...	1226	21.0	10	.0	--	--

613215149522600 - BIG LK S OF LONG IS NR WASILLA AK

DATE	TIME	SAMPLING DEPTH (M) (00098)	SPECIFIC CONDUCTANCE (UMHOS) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE (DEG C) (00010)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
DEC								
19...	1030	.10	121	6.2	.5	773	14.7	100
19...	1031	.50	118	6.5	.5	773	14.1	96
19...	1032	1.0	116	6.7	1.0	773	13.7	95
19...	1033	1.5	114	6.8	1.5	773	13.2	92
19...	1034	2.0	113	6.9	1.5	773	13.1	92
19...	1035	2.5	111	7.0	1.5	773	12.7	90
19...	1036	3.0	110	7.0	2.0	773	12.4	88
19...	1037	3.5	109	7.1	2.0	773	12.2	86
19...	1038	4.0	109	7.1	2.0	773	12.0	85
19...	1039	4.5	109	7.1	2.0	773	11.6	83
19...	1040	5.0	110	7.1	2.0	773	11.2	80
19...	1041	5.5	110	7.1	2.0	773	11.1	80
19...	1042	6.0	110	7.1	2.5	773	11.0	79
19...	1043	6.5	109	7.1	2.5	773	10.9	79
19...	1044	7.0	108	7.1	3.0	773	10.3	75
19...	1045	7.5	108	7.0	3.0	773	9.8	72
19...	1046	8.0	109	7.0	3.0	773	9.5	70
19...	1047	8.5	108	7.0	3.0	773	9.3	68
19...	1048	9.0	109	6.9	3.0	773	8.8	65
19...	1049	9.5	110	6.9	3.0	773	8.3	61
19...	1050	10.0	109	6.9	3.0	773	8.3	61
19...	1051	11.0	109	6.9	3.5	773	7.8	58
19...	1052	12.0	108	6.9	3.5	773	6.9	51
19...	1053	13.0	108	6.8	3.5	773	6.1	45
19...	1054	14.0	110	6.8	3.5	773	5.7	42
19...	1055	15.0	112	6.7	3.5	773	3.7	28
19...	1056	15.5	147	7.0	4.0	773	.0	0

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS LAKE SITES

SOUTH-CENTRAL ALASKA--Continued

613215149522600 - BIG LK S OF LONG IS NR WASILLA AK--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	SAMPLING DEPTH (M) (00098)	SPECIFIC CONDUCTANCE (UMHOS) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE (DEG C) (00010)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
JAN								
19...	1025	.10	121	7.2	.0	759	13.2	91
19...	1026	.50	119	7.2	.5	759	12.9	90
19...	1027	1.0	117	7.2	1.0	759	12.7	89
19...	1028	1.5	116	7.2	1.5	759	12.4	88
19...	1029	2.0	115	7.2	1.5	759	12.2	88
19...	1030	2.5	114	7.2	2.0	759	11.9	86
19...	1031	3.0	114	7.2	2.0	759	11.7	85
19...	1032	3.5	113	7.2	2.0	759	11.4	83
19...	1033	4.0	113	7.1	2.0	759	11.0	80
19...	1034	4.5	114	7.1	2.0	759	10.2	74
19...	1035	5.0	115	7.1	2.0	759	9.8	71
19...	1036	5.5	115	7.1	2.0	759	9.6	70
19...	1037	6.0	114	7.0	2.5	759	9.4	69
19...	1038	6.5	114	7.0	2.5	759	8.7	64
19...	1039	7.0	116	7.0	2.5	759	8.2	60
19...	1040	7.5	117	6.9	2.5	759	7.7	57
19...	1041	8.0	117	6.9	2.5	759	7.3	54
19...	1042	8.5	117	6.9	3.0	759	7.1	53
19...	1043	9.0	116	6.8	3.0	759	6.9	51
19...	1044	9.5	116	6.8	3.0	759	6.7	50
19...	1045	10.0	116	6.8	3.0	759	6.6	49
19...	1046	11.0	116	6.8	3.0	759	6.2	46
19...	1047	12.0	115	6.7	3.5	759	5.1	38
19...	1048	13.0	115	6.7	3.5	759	4.0	30
19...	1049	14.0	118	6.6	3.5	759	2.5	19
19...	1050	15.0	146	6.8	4.0	759	.0	0
19...	1051	15.8	196	6.8	4.0	759	.0	0
FEB								
28...	1004	.10	122	7.4	.0	747	11.8	83
28...	1005	.50	121	7.3	.5	747	11.6	83
28...	1006	1.0	120	7.3	1.0	747	11.5	83
28...	1007	1.5	119	7.2	1.5	747	11.3	82
28...	1008	2.0	118	7.2	1.5	747	11.2	82
28...	1009	2.5	117	7.2	2.0	747	11.0	81
28...	1010	3.0	120	7.1	2.0	747	10.3	76
28...	1011	3.5	122	7.1	2.0	747	9.8	72
28...	1012	4.0	122	7.0	2.0	747	9.5	70
28...	1013	4.5	122	7.0	2.0	747	9.4	69
28...	1014	5.0	122	7.0	2.0	747	8.9	66
28...	1015	5.5	122	6.9	2.0	747	8.3	62
28...	1016	6.0	121	6.9	2.5	747	7.6	57
28...	1017	6.5	122	6.9	2.5	747	7.1	53
28...	1018	7.0	124	6.8	3.0	747	6.2	47
28...	1019	7.5	125	6.8	3.0	747	5.9	44
28...	1020	8.0	125	6.7	3.0	747	5.6	42
28...	1021	8.5	127	6.7	3.0	747	5.5	42
28...	1022	9.0	128	6.7	3.0	747	5.1	39
28...	1023	9.5	128	6.7	3.0	747	4.6	35
28...	1024	10.0	128	6.7	3.0	747	4.5	34
28...	1025	10.5	127	6.7	3.0	747	4.3	33
28...	1026	11.0	126	6.6	3.0	747	4.1	31
28...	1027	11.5	126	6.6	3.0	747	3.8	29
28...	1028	12.2	148	6.6	3.5	747	2.5	19
MAR								
07...	1303	.10	124	7.2	.5	758	12.3	86
07...	1304	1.0	122	7.1	1.0	758	12.0	85
07...	1305	2.0	120	7.1	1.5	758	11.5	82
07...	1306	3.0	119	7.1	2.0	758	11.0	80
07...	1307	4.0	120	7.1	2.0	758	10.2	74
07...	1308	5.0	123	7.1	2.0	758	8.3	60
07...	1309	6.0	125	7.0	2.0	758	7.9	58
07...	1310	7.0	125	6.9	2.5	758	6.4	47
07...	1311	8.0	126	6.9	2.5	758	6.2	46
07...	1312	9.0	126	6.8	3.0	758	5.0	37
07...	1313	10.0	127	6.8	3.0	758	4.6	34
07...	1314	11.0	127	6.7	3.0	758	4.0	30
07...	1315	12.0	129	6.8	3.0	758	3.4	25
07...	1316	13.0	129	6.7	3.0	758	2.7	20
07...	1317	14.0	131	6.7	3.5	758	1.2	9
07...	1318	15.0	146	6.7	3.5	758	.0	0
07...	1319	16.0	192	7.0	3.5	758	.0	0

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS LAKE SITES

SOUTH-CENTRAL ALASKA--Continued

613215149522600 - BIG LK S OF LONG IS NR WASILLA AK--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	SAMPLING DEPTH (M) (00098)	SPECIFIC CONDUCTANCE (UMHOS) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE (DEG C) (00010)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
MAR								
28...	1028	.10	118	6.9	.5	752	11.9	83
28...	1029	.50	117	7.0	.5	752	11.9	84
28...	1030	1.0	116	7.0	1.5	752	11.6	83
28...	1031	1.5	116	7.0	2.0	752	11.3	82
28...	1032	2.0	116	7.0	2.0	752	11.5	84
28...	1033	2.5	116	7.0	2.0	752	11.5	85
28...	1034	3.0	116	7.0	2.0	752	11.3	83
28...	1035	3.5	117	7.0	2.0	752	10.6	78
28...	1036	4.0	119	7.0	2.0	752	9.7	71
28...	1037	4.5	119	7.0	2.0	752	9.5	70
28...	1038	5.0	121	7.0	2.0	752	8.4	62
28...	1039	5.5	130	6.9	2.0	752	6.8	50
28...	1040	6.0	129	6.9	2.0	752	6.6	48
28...	1041	6.5	130	6.8	2.5	752	6.0	44
28...	1042	7.0	129	6.8	2.5	752	5.8	43
28...	1043	7.5	129	6.8	2.5	752	5.5	41
28...	1044	8.0	127	6.8	3.0	752	5.3	40
28...	1045	8.5	127	6.7	3.0	752	5.0	38
28...	1046	9.0	127	6.7	3.0	752	4.8	36
28...	1047	9.5	127	6.7	3.0	752	4.5	34
28...	1048	10.0	127	6.7	3.0	752	4.4	33
28...	1049	11.0	128	6.7	3.0	752	3.4	26
28...	1050	12.0	131	6.7	3.0	752	2.8	21
28...	1051	13.0	131	6.7	3.0	752	1.7	13
28...	1052	14.0	133	6.6	3.0	752	1.6	12
28...	1053	15.0	138	6.7	3.0	752	1.0	8
28...	1054	15.2	162	7.2	3.5	752	.0	0
MAY								
22...	1102	.10	109	7.1	10.5	754	11.5	105
22...	1103	.50	109	7.1	10.5	754	11.5	105
22...	1104	1.0	108	7.1	10.5	754	11.5	104
22...	1105	1.5	108	7.2	10.5	754	11.5	104
22...	1106	2.0	107	7.2	10.0	754	11.5	103
22...	1107	2.5	107	7.2	10.0	754	11.5	103
22...	1108	3.0	107	7.2	9.5	754	11.5	102
22...	1109	3.5	107	7.2	8.0	754	11.5	99
22...	1110	4.0	107	7.2	7.5	754	11.5	97
22...	1111	4.5	108	7.2	7.0	754	11.4	95
22...	1112	5.0	110	7.2	6.5	754	11.1	92
22...	1113	5.5	112	7.1	6.0	754	10.5	85
22...	1114	6.0	117	7.1	5.5	754	10.0	81
22...	1115	6.5	119	7.0	5.5	754	9.3	74
22...	1116	7.0	122	6.9	5.0	754	8.6	68
22...	1117	7.5	125	6.9	4.5	754	8.3	65
22...	1118	8.0	126	6.9	4.5	754	7.8	61
22...	1119	8.5	127	6.9	4.5	754	7.5	58
22...	1120	9.0	128	6.8	4.5	754	7.3	57
22...	1121	9.5	128	6.8	4.0	754	7.0	54
22...	1122	10.0	129	6.8	4.0	754	6.9	53
22...	1123	11.0	131	6.8	4.0	754	6.2	48
22...	1124	12.0	133	6.8	4.0	754	5.5	42
22...	1125	13.0	137	6.7	3.5	754	3.9	30
22...	1126	14.0	140	6.7	3.5	754	2.9	22
22...	1127	15.0	145	6.7	3.5	754	.0	0
22...	1128	16.0	147	6.6	3.5	754	.0	0
22...	1129	16.1	173	7.0	3.5	754	.0	0
JUN								
05...	1016	.10	110	7.0	15.5	749	10.6	108
05...	1017	.50	110	7.1	15.5	749	10.6	108
05...	1018	1.0	110	7.1	15.5	749	10.5	107
05...	1019	1.5	110	7.1	15.5	749	10.5	107
05...	1020	2.0	110	7.1	15.0	749	10.6	107
05...	1021	2.5	110	7.1	14.5	749	10.8	108
05...	1022	3.0	111	7.2	13.5	749	11.1	108
05...	1023	3.5	111	7.1	12.0	749	11.2	106
05...	1024	4.0	112	7.1	10.5	749	11.2	103
05...	1025	4.5	112	7.1	10.0	749	11.1	100
05...	1026	5.0	113	7.1	9.5	749	11.1	99
05...	1027	5.5	116	7.1	8.5	749	10.6	92
05...	1028	6.0	116	7.1	8.0	749	10.5	90
05...	1029	6.5	116	7.0	7.5	749	10.5	89
05...	1030	7.0	118	7.0	7.0	749	10.2	86

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS LAKE SITES

SOUTH-CENTRAL ALASKA--Continued

613215149522600 - BIG LK S OF LONG IS NR WASILLA AK--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	SAMPLING DEPTH (M) (00098)	SPECIFIC CONDUCTANCE (UMHOS) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE (DEG C) (00010)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
JUN								
05...	1031	7.5	118	7.0	7.0	749	9.8	82
05...	1032	8.0	119	6.9	6.5	749	9.4	78
05...	1033	8.5	121	6.9	6.0	749	8.9	73
05...	1034	9.0	121	6.9	6.0	749	8.2	67
05...	1035	9.5	123	6.8	5.5	749	7.5	61
05...	1036	10.0	123	6.8	5.5	749	7.3	59
05...	1037	11.0	126	6.8	5.0	749	6.1	49
05...	1038	12.0	126	6.8	5.0	749	5.4	43
05...	1039	13.0	129	6.7	4.5	749	4.3	34
05...	1040	14.0	130	6.6	4.5	749	3.7	29
05...	1041	15.0	132	6.6	4.5	749	3.1	24
05...	1042	15.6	160	6.6	4.0	749	.0	0
21...	1430	.10	109	7.3	18.0	767	10.0	105
21...	1431	1.0	109	7.4	18.0	767	10.0	105
21...	1432	2.0	109	7.4	17.5	767	10.0	104
21...	1433	3.0	109	7.4	17.5	767	10.0	104
21...	1434	4.0	109	7.4	17.0	767	10.0	103
21...	1435	4.5	110	7.3	15.0	767	10.3	102
21...	1436	5.0	110	7.3	14.5	767	10.3	101
21...	1437	5.5	111	7.3	12.0	767	11.1	103
21...	1438	6.0	112	7.2	10.5	767	11.0	98
21...	1439	6.5	113	7.2	9.5	767	10.7	93
21...	1440	7.0	113	7.2	9.5	767	10.5	91
21...	1441	7.5	113	7.1	9.0	767	10.3	89
21...	1442	8.0	114	7.1	8.5	767	10.2	87
21...	1443	8.5	115	7.1	8.0	767	9.6	80
21...	1444	9.0	116	7.0	7.5	767	9.0	74
21...	1445	9.5	117	7.0	7.0	767	8.3	68
21...	1446	10.0	117	7.0	6.5	767	7.1	57
21...	1447	11.0	119	6.9	6.0	767	5.5	44
21...	1448	12.0	120	6.9	5.5	767	4.3	34
21...	1449	13.0	121	6.8	5.0	767	3.4	27
21...	1450	14.0	122	6.8	5.0	767	2.9	23
21...	1451	15.0	123	6.8	5.0	767	1.8	14
21...	1452	16.0	127	6.7	4.5	767	.0	0
21...	1453	16.2	143	6.7	4.5	767	.0	0
JUL								
02...	0923	.10	109	7.2	17.5	762	9.6	100
02...	0924	.50	111	7.1	17.5	762	9.6	100
02...	0925	1.0	111	7.1	17.5	762	9.6	100
02...	0926	1.5	111	7.1	17.5	762	9.6	100
02...	0927	2.0	111	7.1	17.5	762	9.6	100
02...	0928	2.5	111	7.1	17.5	762	9.6	100
02...	0929	3.0	111	7.1	17.5	762	9.6	100
02...	0930	3.5	110	7.1	17.5	762	9.6	100
02...	0931	4.0	110	7.2	17.5	762	9.6	100
02...	0932	4.5	110	7.2	17.5	762	9.6	100
02...	0933	5.0	110	7.1	16.5	762	10.3	105
02...	0934	5.5	111	7.1	14.0	762	10.8	105
02...	0935	6.0	112	7.0	12.5	762	11.2	105
02...	0936	6.5	112	6.9	10.5	762	11.0	99
02...	0937	7.0	113	6.9	10.0	762	10.8	96
02...	0938	7.5	114	6.8	9.5	762	10.4	91
02...	0939	8.0	115	6.8	9.0	762	9.5	82
02...	0940	8.5	115	6.8	8.5	762	9.2	78
02...	0941	9.0	116	6.7	8.0	762	8.6	72
02...	0942	9.5	116	6.7	7.5	762	8.0	67
02...	0943	10.0	117	6.6	7.0	762	6.7	55
02...	0944	11.0	118	6.6	6.0	762	4.4	36
02...	0945	12.0	120	.5	5.5	762	2.6	21
02...	0946	13.0	120	6.5	5.5	762	1.8	14
02...	0947	14.0	121	6.5	5.0	762	1.2	9
02...	0948	15.0	123	6.5	5.0	762	.0	0
02...	0949	16.0	135	6.5	5.0	762	.0	0
16...	1030	.10	112	7.2	18.5	757	9.7	104
16...	1031	.50	112	7.2	18.5	757	9.6	103
16...	1032	1.0	112	7.3	18.5	757	9.6	103
16...	1033	1.5	112	7.3	18.5	757	9.6	103
16...	1034	2.0	112	7.3	18.5	757	9.6	103
16...	1035	2.5	112	7.3	18.5	757	9.6	103
16...	1036	3.0	111	7.3	18.5	757	9.6	103

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS LAKE SITES

SOUTH-CENTRAL ALASKA--Continued

613215149522600 - BIG LK S OF LONG IS NR WASILLA AK--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	SAM-PLING DEPTH (M) (00098)	SPE-CIFIC CON-DUCT-ANCE (UMHOS) (00095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)
JUL								
16...	1037	3.5	112	7.3	18.5	757	9.6	103
16...	1038	4.0	111	7.3	18.5	757	9.7	104
16...	1039	4.5	110	7.3	18.0	757	9.7	103
16...	1040	5.0	112	7.3	17.5	757	10.2	107
16...	1041	5.5	111	7.2	15.5	757	11.3	114
16...	1042	6.0	112	7.2	14.5	757	11.4	113
16...	1043	6.5	114	7.2	11.0	757	11.3	104
16...	1044	7.0	114	7.1	10.5	757	10.9	98
16...	1045	7.5	115	7.0	10.0	757	10.5	93
16...	1046	8.0	114	7.0	9.5	757	10.1	89
16...	1047	8.5	115	6.9	9.0	757	9.5	83
16...	1048	9.0	115	6.8	8.5	757	8.8	76
16...	1049	9.5	116	6.8	8.0	757	7.8	66
16...	1050	10.0	116	6.7	8.0	757	7.0	59
16...	1051	11.0	117	6.7	7.0	757	4.9	41
16...	1052	12.0	121	6.7	6.5	757	2.6	21
16...	1053	13.0	123	6.6	6.0	757	1.0	8
16...	1054	14.0	122	6.6	5.5	757	.0	0
16...	1055	15.0	123	6.6	5.5	757	.0	0
16...	1056	15.6	132	7.4	5.0	757	.0	0
31...	0830	.10	113	7.0	17.5	758	10.0	106
31...	0831	.50	113	7.1	17.5	758	9.9	105
31...	0832	1.0	113	7.1	17.5	758	9.8	103
31...	0833	1.5	113	7.1	17.5	758	9.8	103
31...	0834	2.0	113	7.1	17.5	758	9.8	103
31...	0835	2.5	113	7.1	17.5	758	9.7	102
31...	0836	3.0	113	7.2	17.5	758	9.7	102
31...	0837	3.5	113	7.2	17.5	758	9.8	103
31...	0838	4.0	112	7.2	17.5	758	9.8	103
31...	0839	4.5	112	7.2	17.5	758	9.7	102
31...	0840	5.0	112	7.2	17.5	758	9.7	102
31...	0841	5.5	113	7.2	17.5	758	9.5	100
31...	0842	6.0	117	7.0	15.5	758	10.2	103
31...	0843	6.5	117	7.0	13.5	758	10.2	99
31...	0844	7.0	117	6.8	12.0	758	9.3	87
31...	0845	7.5	117	6.7	11.5	758	9.4	87
31...	0846	8.0	117	6.7	11.0	758	9.2	84
31...	0847	8.5	117	6.7	10.0	758	8.8	79
31...	0848	9.0	117	6.7	9.5	758	8.1	71
31...	0849	9.5	117	6.6	9.0	758	7.5	65
31...	0850	10.0	118	6.6	8.5	758	6.2	53
31...	0851	11.0	121	6.5	7.0	758	3.3	27
31...	0852	12.0	122	6.5	6.5	758	1.1	9
31...	0853	13.0	124	6.5	6.0	758	.0	0
31...	0854	14.0	126	6.5	5.5	758	.0	0
31...	0855	15.0	135	6.5	5.5	758	.0	0
31...	0856	16.0	155	6.7	5.0	758	.0	0
AUG								
13...	1120	.10	114	7.3	18.5	759	9.4	101
13...	1121	.50	114	7.3	18.5	759	9.4	101
13...	1122	1.0	114	7.3	18.5	759	9.4	101
13...	1123	1.5	114	7.3	18.5	759	9.4	101
13...	1124	2.0	114	7.3	18.5	759	9.4	101
13...	1125	2.5	114	7.3	18.5	759	9.4	101
13...	1126	3.0	114	7.3	18.5	759	9.4	101
13...	1127	3.5	114	7.3	18.5	759	9.4	101
13...	1128	4.0	114	7.3	18.5	759	9.4	101
13...	1129	4.5	114	7.3	18.5	759	9.4	101
13...	1130	5.0	114	7.3	18.5	759	9.3	99
13...	1131	5.5	114	7.3	18.0	759	9.3	99
13...	1132	6.0	116	7.3	16.5	759	9.1	93
13...	1133	6.5	116	6.8	14.0	759	8.5	83
13...	1134	7.0	116	6.8	12.5	759	8.2	78
13...	1135	7.5	117	6.7	12.0	759	8.1	75
13...	1136	8.0	117	6.7	11.5	759	8.0	74
13...	1137	8.5	117	6.7	11.0	759	7.8	71
13...	1138	9.0	117	6.6	10.0	759	6.9	62
13...	1139	9.5	118	6.6	9.5	759	5.8	51
13...	1140	10.0	118	6.6	9.0	759	5.0	43
13...	1141	11.0	122	6.5	7.5	759	.0	0
13...	1142	12.0	124	6.5	6.0	759	.0	0
13...	1143	13.0	130	6.6	5.5	759	.0	0

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS LAKE SITES

SOUTH-CENTRAL ALASKA--Continued

613215149522600 - BIG LK S OF LONG IS NR WASILLA AK--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	SAM- PLING DEPTH (M) (00098)	SPE- CIFIC CON- DUCT- ANCE (UMHOS) (00095)	PH (STAND- ARD UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)
AUG								
13...	1144	14.0	136	6.6	5.5	759	.0	0
13...	1145	15.0	141	6.6	5.5	759	.0	0
29...	1012	.10	113	6.6	13.5	754	9.8	95
29...	1013	.50	113	6.7	13.5	754	9.7	94
29...	1014	1.0	113	6.7	13.5	754	9.6	93
29...	1015	1.5	113	6.7	13.5	754	9.6	93
29...	1016	2.0	113	6.7	13.5	754	9.6	93
29...	1017	2.5	113	6.8	13.5	754	9.5	92
29...	1018	3.0	113	6.8	13.5	754	9.5	92
29...	1019	3.5	113	6.9	13.5	754	9.5	92
29...	1020	4.0	113	6.9	13.5	754	9.5	92
29...	1021	4.5	113	6.9	13.5	754	9.5	92
29...	1022	5.0	113	6.9	13.5	754	9.5	92
29...	1023	5.5	113	6.9	13.5	754	9.5	92
29...	1024	6.0	113	6.9	13.5	754	9.5	92
29...	1025	6.5	113	6.9	13.5	754	9.5	92
29...	1026	7.0	113	6.9	13.5	754	9.5	92
29...	1027	7.5	113	6.9	13.5	754	9.5	92
29...	1028	8.0	112	6.8	13.5	754	9.2	89
29...	1029	8.5	114	6.6	13.0	754	7.8	74
29...	1030	9.0	115	6.4	12.0	754	6.6	62
29...	1031	9.5	116	6.3	11.0	754	5.8	53
29...	1032	10.0	117	6.3	10.5	754	4.4	40
29...	1033	11.0	123	6.2	8.5	754	1.4	12
29...	1034	12.0	124	6.3	7.5	754	.8	7
29...	1035	13.0	132	6.3	6.5	754	.5	4
29...	1036	14.0	143	6.5	6.0	754	.0	0
29...	1037	15.0	159	6.7	5.5	754	.0	0
29...	1038	16.0	167	6.8	5.5	754	.0	0
SEP								
10...	0935	.10	115	6.8	13.5	753	10.3	100
10...	0936	.50	114	6.8	13.5	753	10.2	99
10...	0937	1.0	115	6.8	13.5	753	10.1	98
10...	0938	1.5	115	6.8	13.5	753	10.1	98
10...	0939	2.0	114	6.9	13.5	753	10.1	98
10...	0940	2.5	114	6.9	13.5	753	10.1	98
10...	0941	3.0	115	6.9	13.5	753	10.1	98
10...	0942	3.5	115	6.9	13.5	753	10.1	98
10...	0943	4.0	114	6.9	13.5	753	10.1	98
10...	0944	4.5	114	6.9	13.5	753	10.0	97
10...	0945	5.0	115	6.8	13.0	753	9.9	96
10...	0946	5.5	115	6.8	13.0	753	9.9	95
10...	0947	6.0	115	6.8	13.0	753	9.7	93
10...	0948	6.5	115	6.8	13.0	753	9.5	91
10...	0949	7.0	116	6.7	12.5	753	9.3	89
10...	0950	7.5	117	6.7	12.5	753	9.2	87
10...	0951	8.0	118	6.7	12.5	753	9.0	85
10...	0952	8.5	118	6.6	12.0	753	8.2	77
10...	0953	9.0	117	6.5	12.0	753	7.2	67
10...	0954	9.5	117	6.4	11.5	753	6.1	56
10...	0955	10.0	118	6.3	11.0	753	4.8	44
10...	0956	11.0	120	6.2	9.5	753	1.0	9
10...	0957	12.0	130	6.3	7.5	753	.0	0
10...	0958	13.0	135	6.4	6.5	753	.0	0
10...	0959	14.0	140	6.5	6.0	753	.0	0
10...	1000	15.0	152	6.6	5.5	753	.0	0
10...	1001	15.8	161	6.7	5.5	753	.0	0

DATE	TIME	TEMPER- ATURE, AIR (DEG C) (00020)	CLOUD COVER (PER- CENT) (00032)	WIND SPEED (MILES PER HOUR) (00035)	WIND DIREC- TION (DEG. FROM TRUE NORTH) (00036)	LIGHT INCID. 400- 700NM INTENS. (U-EINS /SQM/S) (00200)	LIGHT, ATTENU- ATION COEFFI- CIENT (ALPHA/ METER) (70971)	ICE THICK- NESS METERS (82131)	SNOW DEPTH INCHES (82300)	LIGHT DEPTH TO 1 % OF SURFACE LIGHT METERS (85328)
DEC										
19...	1057	-12.0	20	.0	--	19.2	.39	.40	3.9	3.0
JAN										
19...	1052	-5.0	100	1.0	0	27.9	.41	.57	3.9	3.0

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ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS LAKE SITES

SOUTH-CENTRAL ALASKA--Continued

613215149522600 - BIG LK S OF LONG IS NR WASILLA AK--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	TEMPER-ATURE, AIR (DEG C) (00020)	CLOUD COVER (PER-CENT) (00032)	WIND SPEED (MILES PER HOUR) (00035)	WIND DIREC-TION (DEG. FROM TRUE NORTH) (00036)	LIGHT INCID. 400-700NM INTENS. (U-EINS /SQM/S) (00200)	LIGHT, ATTENU-ATION COEFFI-CIENT (ALPHA/ METER) (70971)	ICE THICK-NESS METERS (82131)	SNOW DEPTH INCHES (82300)	LIGHT DEPTH TO 1 % OF SURFACE LIGHT METERS (85328)
FEB										
28...	1029	-3.5	30	2.0	270	320	.30	.88	9.8	1.0
MAR										
07...	1320	4.5	70	.0	--	--	--	.89	6.3	--
28...	1055	1.5	0	.0	--	863	.37	.81	.40	7.5
MAY										
22...	1131	9.0	100	.0	--	678	.65	.00	.00	8.0
JUN										
05...	1043	18.5	0	1.0	270	1240	--	--	--	9.5
06...	0956	8.5	100	10	90	82.0	.53	--	--	9.8
19...	1001	15.0	0	5.0	180	896	.47	--	--	11
21...	1454	21.0	5	5.0	270	--	--	--	--	--
JUL										
02...	0950	14.0	100	.0	--	335	.43	--	--	11
16...	1057	18.0	100	10	225	725	.40	--	--	11
31...	0857	16.5	20	1.0	135	390	.39	--	--	11
AUG										
13...	1146	18.5	85	4.0	0	468	.39	--	--	11
29...	1039	8.0	0	.0	--	648	.53	--	--	9.3
SEP										
10...	1002	11.0	0	.0	--	426	.50	--	--	10

DATE	TIME	SAM-PLING DEPTH (M) (00098)	HARD-NESS (MG/L AS CACO3) (00900)	HARD-NESS, NONCAR-BONATE (MG/L CACO3) (00902)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY, CARBON-ATE IT-FLD (MG/L - CACO3) (99430)
MAR									
28...	1100	2.0	58	0	18	3.1	2.2	.90	59
28...	1110	14.0	70	0	22	3.7	2.7	1.0	71
MAY									
22...	1130	--	67	0	21	3.5	2.4	.50	--
24...	0930	--	51	0	16	2.7	2.0	.10	--

DATE	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	BORON, DIS-SOLVED (UG/L AS B) (01020)	IRON, DIS-SOLVED (UG/L AS FE) (01046)
MAR								
28...	2.1	1.8	<.10	6.8	79	73	<10	4
28...	3.6	2.1	<.10	12	94	93	10	500
MAY								
22...	2.5	2.0	<.10	12	93	86	30	110
24...	2.1	1.5	<.10	5.9	72	61	30	31

DATE	TIME	SAM-PLING DEPTH (M) (00098)	ALKA-LINITY LAB (MG/L AS CACO3) *(90410)	SILICA, DIS-SOLVED (MG/L AS SIO2) *(00955)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) *(00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) *(00608)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) *(00625)	PHOS-PHORUS, TOTAL (MG/L AS P) *(00665)
DEC								
19...	1100	1.0	--	--	--	--	--	--
19...	1101	2.0	63	6.6	.00	.019	.20	.007
19...	1102	3.0	--	--	--	--	--	--
19...	1103	4.0	--	--	--	--	--	--
19...	1104	5.0	--	--	--	--	--	--
19...	1105	6.0	61	6.7	.00	.025	.20	.007

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ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS LAKE SITES

SOUTH-CENTRAL ALASKA--Continued

613215149522600 - BIG LK S OF LONG IS NR WASILLA AK--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	SAMPLING DEPTH (M) (00098)	ALKALINITY LAB (MG/L AS CACO3) *(90410)	SILICA, DISSOLVED (MG/L AS SIO2) *(00955)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) *(00631)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) *(00608)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) *(00625)	PHOSPHORUS, TOTAL (MG/L AS P) *(00665)
DEC								
19...	1106	8.0	--	--	--	--	--	--
19...	1107	10.0	64	7.4	.06	.009	.17	.009
19...	1108	12.0	--	--	--	--	--	--
19...	1109	14.0	65	8.4	.08	.050	.25	.011
JAN								
19...	1056	2.0	58	6.6	.02	.008	.20	.007
19...	1057	3.0	--	--	--	--	--	--
19...	1058	4.0	--	--	--	--	--	--
19...	1059	5.0	--	--	--	--	--	--
19...	1100	6.0	58	7.3	.05	.005	.20	.008
19...	1101	7.0	--	--	--	--	--	--
19...	1102	8.0	--	--	--	--	--	--
19...	1103	10.0	68	8.2	.10	.007	.20	.009
19...	1104	15.0	71	11	.10	.294	.56	.030
FEB								
28...	1030	2.0	54	6.9	.04	.002	.16	.007
28...	1031	4.0	--	--	--	--	--	--
28...	1032	5.0	67	7.4	.07	.003	.17	.008
28...	1033	6.0	--	--	--	--	--	--
28...	1034	8.0	70	9.1	.12	.003	.15	.009
28...	1035	10.0	--	--	--	--	--	--
28...	1036	11.0	71	9.9	.16	.004	.16	.009
MAR								
28...	1120	2.0	69	6.6	.02	.010	.23	.008
28...	1121	4.0	--	--	--	--	--	--
28...	1122	6.0	77	8.6	.10	.006	.19	.009
28...	1123	8.0	--	--	--	--	--	--
28...	1124	10.0	77	9.8	.15	.006	.20	.009
28...	1125	14.0	86	12	.12	.124	.31	.022
MAY								
23...	1130	2.0	60	5.9	.00	.002	.17	.007
23...	1131	4.0	--	--	--	--	--	--
23...	1132	6.0	--	--	--	--	--	--
23...	1133	7.0	72	7.5	.00	.003	.20	.011
23...	1134	10.0	77	9.0	.02	.014	.19	.010
23...	1135	15.0	85	11	.05	.142	.34	.017
JUN								
06...	1148	2.0	53	5.8	.00	.002	.19	.010
06...	1149	4.0	--	--	--	--	--	--
06...	1150	6.0	56	6.3	.00	.002	.19	.010
06...	1151	8.0	--	--	--	--	--	--
06...	1152	9.0	--	--	--	--	--	--
06...	1153	10.0	62	8.5	.00	.005	.26	.018
06...	1154	11.0	--	--	--	--	--	--
06...	1155	12.0	--	--	--	--	--	--
06...	1156	15.0	66	10	.02	.045	.22	.013
20...	1010	2.0	51	5.4	.00	.002	.16	.007
20...	1011	4.0	--	--	--	--	--	--
20...	1012	6.0	53	5.9	.00	.003	.20	.012
20...	1013	7.0	--	--	--	--	--	--
20...	1014	8.0	--	--	--	--	--	--
20...	1015	9.0	--	--	--	--	--	--
20...	1016	10.0	57	7.5	.00	.007	.27	.021
20...	1017	12.0	--	--	--	--	--	--
20...	1018	14.5	59	8.3	.00	.013	.24	.023
JUL								
03...	1000	2.0	52	5.4	.00	.002	.20	.008
03...	1001	4.0	--	--	--	--	--	--
03...	1002	6.0	56	6.3	.00	.002	.17	.009
03...	1003	8.0	--	--	--	--	--	--
03...	1004	10.0	65	7.6	.00	.007	.26	.020
03...	1005	12.0	--	--	--	--	--	--
03...	1006	15.0	64	9.5	.02	.064	.35	.023
17...	1100	2.0	52	5.6	.00	.004	.19	.006
17...	1101	4.0	--	--	--	--	--	--
17...	1102	5.0	--	--	--	--	--	--
17...	1103	6.0	56	5.5	.00	.002	.19	.008
17...	1104	7.0	--	--	--	--	--	--
17...	1105	8.0	--	--	--	--	--	--

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ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS LAKE SITES

SOUTH-CENTRAL ALASKA--Continued

613215149522600 - BIG LK S OF LONG IS NR WASILLA AK--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	SAMPLING DEPTH (M) (00098)	ALKALINITY LAB (MG/L AS CACO3) *(90410)	SILICA, DISSOLVED (MG/L AS SIO2) *(00955)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) *(00631)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) *(00608)	NITROGEN, AMMONIA + ORGANIC TOTAL (MG/L AS N) *(00625)	PHOSPHORUS, TOTAL (MG/L AS P) *(00665)
JUL								
17...	1106	9.0	--	--	--	--	--	--
17...	1107	10.0	54	7.6	<.00	.002	.22	.014
17...	1108	12.0	--	--	--	--	--	--
17...	1109	14.0	--	--	--	--	--	--
17...	1110	14.5	62	8.6	.00	.008	.25	.020
31...	0900	2.0	66	5.6	.00	<.001	.19	.007
31...	0901	5.0	--	--	--	--	--	--
31...	0902	6.0	56	5.6	--	--	.19	.006
31...	0903	7.0	--	--	--	--	--	--
31...	0904	8.0	--	--	--	--	--	--
31...	0905	9.0	--	--	--	--	--	--
31...	0906	10.0	57	8.4	.00	.001	.24	.011
31...	0907	13.0	--	--	--	--	--	--
31...	0908	14.0	--	--	--	--	--	--
31...	0909	15.0	62	9.5	.00	.019	.26	.020
AUG								
14...	1150	2.0	57	5.4	.00	<.001	.20	.011
14...	1151	5.0	--	--	--	--	--	--
14...	1152	6.0	58	5.7	.00	<.001	.21	.011
14...	1153	7.0	--	--	--	--	--	--
14...	1154	8.0	--	--	--	--	--	--
14...	1155	9.0	--	--	--	--	--	--
14...	1156	10.0	59	8.1	.00	<.001	.26	.019
14...	1157	11.0	--	--	--	--	--	--
14...	1158	13.0	--	--	--	--	--	--
14...	1159	14.0	--	--	--	--	--	--
14...	1200	15.0	64	12	.00	.172	.47	.069
30...	1040	2.0	54	5.3	.00	.002	.26	.017
30...	1041	4.0	--	--	--	--	--	--
30...	1042	6.0	53	5.3	.00	<.001	.23	.015
30...	1043	8.0	--	--	--	--	--	--
30...	1044	9.0	--	--	--	--	--	--
30...	1045	10.0	57	6.7	.00	.007	.24	.021
30...	1046	12.0	--	--	--	--	--	--
30...	1047	15.0	68	12	.00	.502	.94	.173
SEP								
11...	1030	2.0	55	6.0	.00	.003	.30	.016
11...	1031	5.0	--	--	--	--	--	--
11...	1032	6.0	54	6.2	.00	.002	.29	.012
11...	1033	7.0	--	--	--	--	--	--
11...	1034	8.0	--	--	--	--	--	--
11...	1035	10.0	52	7.8	.00	.004	.27	.013
11...	1036	12.0	--	--	--	--	--	--
11...	1037	13.0	--	--	--	--	--	--
11...	1038	14.0	--	--	--	--	--	--
11...	1039	15.0	54	13	.00	.003	.67	.085

DATE	PHOSPHORUS, DISSOLVED (MG/L AS P) *(00666)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P) *(00671)	CARBON, INORGANIC, TOTAL (MG/L AS C) (00685)	IRON, DISSOLVED (UG/L AS FE) *(01046)	CHLOROPHYLL A FLUOROMETRIC METHOD CORR. (UG/L) (32209)	NITROGEN NITRATE DISSOLV (UG/L) (91003)	PHOSPHORUS, ORTHO, DISSOLVED (UG/L AS P) (91004)
DEC							
19...	--	--	--	--	2.45	--	--
19...	.006	.004	14	30	.810	1.4	4.4
19...	--	--	--	--	.900	--	--
19...	--	--	--	--	1.43	--	--
19...	--	--	--	--	1.43	--	--
19...	.005	.004	--	--	--	3.7	4.2
19...	--	--	--	--	1.02	--	--
19...	.006	.006	--	--	--	63.5	5.6
19...	--	--	--	--	.480	--	--
19...	.007	.006	--	--	--	80.7	6.2
JAN							
19...	.006	.005	16	--	.680	17.4	4.7
19...	--	--	--	--	.420	--	--

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ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS LAKE SITES

SOUTH-CENTRAL ALASKA--Continued

613215149522600 - BIG LK S OF LONG IS NR WASILLA AK--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	PHOS-PHORUS, DIS-SOLVED (MG/L AS P) *(00666)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P) *(00671)	CARBON, INOR-GANIC, TOTAL (MG/L AS C) (00685)	IRON, DIS-SOLVED (UG/L AS FE) *(01046)	CHLORO-PHYLL A FLUORO-METRIC METHOD CORR. (UG/L) (32209)	NITRO-GEN NITRATE DISSOLV (UG/L) (91003)	PHOS-PHORUS, ORTHO, DIS-SOLVED (UG/L AS P) (91004)
JAN							
19...	--	--	--	--	.350	--	--
19...	--	--	--	--	.190	--	--
19...	.005	.005	--	--	.250	45.8	5.2
19...	--	--	--	--	.190	--	--
19...	--	--	--	--	.140	--	--
19...	.006	.006	--	--	.140	103	6.4
19...	.009	.009	--	360	--	95.4	8.8
FEB							
28...	.008	.007	14	<10	.890	35.6	7.1
28...	--	--	--	--	.430	--	--
28...	.007	.007	--	30	--	65.3	7.0
28...	--	--	--	--	.160	--	--
28...	.008	.008	--	80	.090	124	8.1
28...	--	--	--	--	.050	--	--
28...	.008	.008	--	140	--	162	7.8
MAR							
28...	.004	.002	14	10	1.87	18.2	1.6
28...	--	--	--	--	3.47	--	--
28...	.004	.003	--	90	1.98	97.2	3.0
28...	--	--	--	--	.560	--	--
28...	.005	.005	--	130	.290	149	4.7
28...	.010	.010	--	1100	--	120	10.1
MAY							
23...	.003	.002	14	80	1.05	3.5	2.0
23...	--	--	--	--	3.45	--	--
23...	--	--	--	--	7.17	--	--
23...	.004	.002	18	90	5.18	2.0	2.2
23...	.002	.002	--	190	3.12	23.6	2.3
23...	.003	.003	--	560	--	50.5	3.2
JUN							
06...	.004	.002	13	40	.900	2.7	1.6
06...	--	--	--	--	.990	--	--
06...	.003	.002	--	40	1.89	2.6	2.0
06...	--	--	--	--	6.73	--	--
06...	--	--	--	--	9.17	--	--
06...	.003	.003	17	90	7.32	4.7	2.6
06...	--	--	--	--	6.19	--	--
06...	--	--	--	--	4.26	--	--
06...	.003	.003	--	150	--	22.4	3.2
20...	.002	.002	12	30	.790	3.4	2.0
20...	--	--	--	--	.910	--	--
20...	.003	.002	--	60	1.47	3.0	2.0
20...	--	--	--	--	1.81	--	--
20...	--	--	--	--	2.34	--	--
20...	--	--	--	--	4.15	--	--
20...	.003	.003	16	70	5.86	3.5	3.2
20...	--	--	--	--	4.53	--	--
20...	.003	.004	--	160	--	6.6	3.6
JUL							
03...	.003	.002	12	50	1.44	3.1	2.0
03...	--	--	--	--	1.47	--	--
03...	.003	.002	--	30	2.30	3.2	2.2
03...	--	--	--	--	4.26	--	--
03...	.004	.003	17	50	4.75	3.6	3.2
03...	--	--	--	--	2.04	--	--
03...	.006	.004	--	170	--	16.4	3.8
17...	.003	.002	13	20	1.60	1.5	2.0
17...	--	--	--	--	1.28	--	--
17...	--	--	--	--	1.08	--	--
17...	--	--	--	20	2.23	1.5	--
17...	--	--	--	--	3.64	--	--
17...	--	--	--	--	5.20	--	--
17...	--	--	--	--	4.72	--	--
17...	.003	.003	16	30	4.48	<1.0	3.0
17...	--	--	--	--	3.62	--	--
17...	--	--	--	--	3.35	--	--
17...	.004	.004	--	150	--	2.6	3.8
31...	.002	.002	12	30	1.54	7.2	2.0
31...	--	--	--	--	1.54	--	--
31...	.003	.002	--	40	2.30	--	2.5

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ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS LAKE SITES

SOUTH-CENTRAL ALASKA--Continued

613215149522600 - BIG LK S OF LONG IS NR WASILLA AK--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	PHOS-PHORUS, DIS-SOLVED (MG/L AS P) *(00666)	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P) *(00671)	CARBON, INOR-GANIC, TOTAL (MG/L AS C) (00685)	IRON, DIS-SOLVED (UG/L AS FE) *(01046)	CHLORO-PHYLL A FLUORO-METRIC METHOD CORR. (UG/L) (32209)	NITRO-GEN NITRATE DISSOLV (UG/L) (91003)	PHOS-PHORUS, ORTHO, DIS-SOLVED (UG/L AS P) (91004)
JUL							
31...	--	--	--	--	3.22	--	--
31...	--	--	--	--	3.84	--	--
31...	--	--	--	--	3.38	--	--
31...	.003	.003	16	40	2.93	6.5	2.8
31...	--	--	--	--	1.18	--	--
31...	--	--	--	--	1.02	--	--
31...	.004	.004	--	180	.580	7.9	3.6
AUG							
14...	.003	.002	13	10	1.52	5.5	1.6
14...	--	--	--	--	1.31	--	--
14...	.002	.002	--	20	2.41	5.5	2.2
14...	--	--	--	--	3.09	--	--
14...	--	--	--	--	3.38	--	--
14...	--	--	--	--	3.78	--	--
14...	.003	.002	16	50	3.75	4.2	2.3
14...	--	--	--	--	3.75	--	--
14...	--	--	--	--	.680	--	--
14...	--	--	--	--	.340	--	--
14...	.024	.030	--	1500	--	6.0	30.4
30...	.003	.002	17	30	1.81	4.5	2.0
30...	--	--	--	--	1.10	--	--
30...	.002	.002	--	40	2.10	4.5	1.9
30...	--	--	--	--	2.44	--	--
30...	--	--	--	--	2.25	--	--
30...	.003	.002	20	20	1.91	5.8	2.0
30...	--	--	--	--	1.28	--	--
30...	.088	.066	--	5000	.000	6.5	66.4
SEP							
11...	.002	.001	14	20	1.83	6.5	1.1
11...	--	--	--	--	2.35	--	--
11...	.002	.002	--	60	2.56	5.8	1.6
11...	--	--	--	--	2.45	--	--
11...	--	--	--	--	2.57	--	--
11...	.003	.002	17	70	2.29	7.4	1.7
11...	--	--	--	--	.710	--	--
11...	--	--	--	--	.000	--	--
11...	--	--	--	--	.000	--	--
11...	.053	.030	--	2800	.000	8.4	30.4

613242149521400 - BIG LK N OF LONG IS NR WASILLA AK

DATE	TIME	SAM-PLING DEPTH (M) (00098)	SPE-CIFIC CON-DUCT-ANCE (UMHOS) (00095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)
MAR								
07...	1410	.10	145	6.7	.0	758	7.3	50
07...	1411	1.0	146	6.8	.0	758	7.0	48
07...	1412	2.0	143	6.8	1.0	758	6.8	48
07...	1413	3.0	141	6.7	1.0	758	6.6	47
07...	1414	4.0	140	6.8	1.5	758	6.6	47
07...	1415	5.0	139	6.8	1.5	758	6.4	46
07...	1416	6.0	138	6.7	1.5	758	6.0	43
07...	1417	7.0	137	6.7	2.5	758	4.9	36
07...	1418	8.0	137	6.7	2.5	758	4.0	30
07...	1419	9.0	137	6.7	2.5	758	3.6	27
07...	1420	10.0	138	6.6	3.0	758	2.5	19
07...	1421	11.0	141	6.6	3.0	758	1.8	13
07...	1422	12.0	146	6.6	3.0	758	.9	7
07...	1423	13.0	171	7.0	3.5	758	.0	0
07...	1424	13.1	175	7.1	3.5	758	.0	0
JUN								
21...	1109	.10	112	7.1	17.5	768	10.1	105
21...	1110	1.0	112	7.2	17.5	768	10.0	104

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ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS LAKE SITES

SOUTH-CENTRAL ALASKA--Continued

613242149521400 - BIG LK N OF LONG IS NR WASILLA AK--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	SAMPLING DEPTH (M) (00098)	SPECIFIC CONDUCTANCE (UMHOS) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE (DEG C) (00010)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
JUN								
21...	1111	2.0	112	7.2	17.5	768	10.0	104
21...	1112	3.0	111	7.2	17.5	768	10.0	104
21...	1113	4.0	113	7.2	16.5	768	10.0	102
21...	1114	5.0	112	7.2	16.0	768	9.9	99
21...	1115	6.0	115	7.1	12.0	768	10.8	100
21...	1116	7.0	116	7.1	9.0	768	10.3	89
21...	1117	8.0	117	7.0	8.0	768	9.4	79
21...	1118	9.0	118	7.0	7.0	768	8.2	67
21...	1119	10.0	122	6.9	6.0	768	4.6	37
21...	1120	11.0	124	6.8	5.5	768	3.4	27
21...	1121	11.6	135	6.7	5.0	768	2.7	21

DATE	TIME	TEMPERATURE, AIR (DEG C) (00020)	CLOUD COVER (PERCENT) (00032)	WIND SPEED (MILES PER HOUR) (00035)	WIND DIRECTION (DEG. FROM TRUE NORTH) (00036)	ICE THICKNESS METERS (82131)	SNOW DEPTH INCHES (82300)
MAR							
07...	1425	4.5	75	.0	--	.77	5.9
JUN							
21...	1122	21.0	50	2.0	90	--	--

613309149513500 - BIG LK NE OF PETROVICH IS NR WASILLA AK

DATE	TIME	SAMPLING DEPTH (M) (00098)	SPECIFIC CONDUCTANCE (UMHOS) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE (DEG C) (00010)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
MAR								
07...	1440	.10	144	6.9	.0	758	7.0	48
07...	1441	1.0	142	6.9	.5	758	6.9	48
07...	1442	2.0	140	6.9	1.0	758	7.0	50
07...	1443	3.0	138	6.8	1.5	758	6.8	49
07...	1444	4.0	138	6.8	1.5	758	6.6	47
07...	1445	5.0	139	6.8	1.5	758	6.2	45
07...	1446	6.0	146	6.8	2.5	758	4.2	31
07...	1447	7.0	150	6.7	3.0	758	1.5	11
07...	1448	7.8	174	6.9	4.0	758	.0	0
JUN								
21...	1045	.10	112	7.3	18.5	768	10.1	107
21...	1046	1.0	112	7.3	18.5	768	10.2	108
21...	1047	2.0	112	7.3	18.5	768	10.1	107
21...	1048	3.0	112	7.3	18.0	768	10.3	108
21...	1049	4.0	112	7.2	16.5	768	10.0	101
21...	1050	5.0	113	7.2	15.0	768	10.0	99
21...	1051	6.0	116	7.0	10.5	768	10.4	92
21...	1052	7.0	116	7.0	9.0	768	9.3	79
21...	1053	8.0	117	6.7	8.0	768	6.3	53
21...	1054	8.7	147	6.6	7.5	768	.9	7

DATE	TIME	TEMPERATURE, AIR (DEG C) (00020)	CLOUD COVER (PERCENT) (00032)	WIND SPEED (MILES PER HOUR) (00035)	WIND DIRECTION (DEG. FROM TRUE NORTH) (00036)	ICE THICKNESS METERS (82131)	SNOW DEPTH INCHES (82300)
MAR							
07...	1449	4.5	80	.0	--	.72	6.7
JUN							
21...	1055	22.0	50	2.0	135	--	--

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS LAKE SITES

SOUTH-CENTRAL ALASKA--Continued

612138150091100 - HORSESHOE LK SW NR PT MACKENZIE NR ANCHORAGE AK

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	SAMPLING DEPTH (M) (00098)	SPECIFIC CONDUCTANCE (UMHOS) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE (DEG C) (00010)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
SEP								
12...	1135	.10	154	6.9	13.0	749	10.4	101
12...	1136	1.0	154	6.9	13.0	749	10.2	99
12...	1137	2.0	153	6.9	13.0	749	10.2	99
12...	1138	3.0	153	7.0	13.0	749	10.2	98
12...	1139	3.5	175	7.0	13.0	749	.0	0
12...	1140	--	--	--	--	749	--	--

DATE	TIME	CLOUD COVER (PERCENT) (00032)	WIND SPEED (MILES PER HOUR) (00035)	WIND DIRECTION (DEG. FROM TRUE NORTH) (00036)	TRANSPARENCY (SECCHI DISK) (M) (00078)	TEMPERATURE, AIR (DEG C) (00020)
SEP						
12...	1140	0	1.0	180	>3.5	13.5

612140150083600 - HORSESHOE LK SE NR PT MACKENZIE NR ANCHORAGE AK

DATE	TIME	SAMPLING DEPTH (M) (00098)	SPECIFIC CONDUCTANCE (UMHOS) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE (DEG C) (00010)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
SEP								
12...	1057	.10	163	7.6	13.0	749	11.5	111
12...	1058	1.0	163	7.7	13.0	749	11.5	111
12...	1059	2.0	163	7.6	13.0	749	11.5	111
12...	1100	3.0	163	7.6	13.0	749	11.4	110
12...	1101	3.4	180	7.3	13.0	749	7.6	73
12...	1102	--	--	--	--	749	--	--

DATE	TIME	CLOUD COVER (PERCENT) (00032)	WIND SPEED (MILES PER HOUR) (00035)	WIND DIRECTION (DEG. FROM TRUE NORTH) (00036)	TRANSPARENCY (SECCHI DISK) (M) (00078)	TEMPERATURE, AIR (DEG C) (00020)
SEP						
12...	1102	10	1.0	180	>3.4	13.0

612147150091400 - HORSESHOE LK W ARM PT MACKENZIE NR ANCHORAGE AK

DATE	TIME	SAMPLING DEPTH (M) (00098)	SPECIFIC CONDUCTANCE (UMHOS) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE (DEG C) (00010)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
SEP								
12...	1143	.10	154	7.2	13.0	749	10.2	99
12...	1144	1.0	154	7.2	13.0	749	10.2	99
12...	1145	2.0	154	7.2	13.0	749	10.2	99
12...	1146	3.0	153	7.2	13.0	749	10.0	97
12...	1147	4.0	153	7.2	13.0	749	9.9	96
12...	1148	5.0	153	7.0	13.0	749	9.2	88
12...	1149	6.0	153	6.7	12.5	749	6.5	62

ANALYSES OF SAMPLES COLLECTED AT MISCELLANEOUS LAKE SITES

SOUTH-CENTRAL ALASKA--Continued

612147150091400 - HORSESHOE LK W ARM PT MACKENZIE NR ANCHORAGE AK--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	TIME	SAMPLING DEPTH (M) (00098)	SPECIFIC CONDUCTANCE (UMHOS) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE (DEG C) (00010)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
SEP								
12...	1150	7.0	154	6.5	12.0	749	5.0	47
12...	1151	8.0	153	6.5	12.0	749	3.3	31
12...	1152	8.5	183	6.3	16.0	749	2.2	23
12...	1153	--	--	--	--	749	--	--

DATE	TIME	CLOUD COVER (PERCENT) (00032)	WIND SPEED (MILES PER HOUR) (00035)	WIND DIRECTION (DEG. FROM TRUE NORTH) (00036)	TEMPERATURE, AIR (DEG C) (00020)
SEP					
12...	1153	10	1.0	180	14.0

612158150081600 - HORSESHOE LK E ARM PT MACKENZIE NR ANCHORAGE AK

DATE	TIME	SAMPLING DEPTH (M) (00098)	SPECIFIC CONDUCTANCE (UMHOS) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE (DEG C) (00010)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)
SEP								
12...	1020	.10	173	7.4	12.5	749	11.4	109
12...	1021	1.0	172	7.4	12.5	749	11.4	109
12...	1022	2.0	172	7.4	12.5	749	11.4	109
12...	1023	3.0	175	7.3	12.5	749	10.6	101
12...	1024	4.0	174	7.3	12.5	749	10.8	103
12...	1025	5.0	174	7.1	12.0	749	10.6	100
12...	1026	5.5	186	7.0	12.5	749	.0	0
12...	1027	--	--	--	--	749	--	--

DATE	TIME	CLOUD COVER (PERCENT) (00032)	WIND SPEED (MILES PER HOUR) (00035)	TRANSPARENCY (SECCHI DISK) (M) (00078)	TEMPERATURE, AIR (DEG C) (00020)
SEP					
12...	1027	0	.0	>5.5	13.0

GROUND-WATER LEVELS

SOUTHEAST ALASKA

JUNEAU

582422134342001. Local number, CD04006618ABDB1003 85177.

LOCATION.--Lat 58°24'24", long 134°34'23", Hydrologic Unit 19060000, Mendenhall Loop Road, near Juneau. Owner: U.S. Forest Service.

AQUIFER.--Sand and gravel of Quaternary age.

WELL CHARACTERISTICS.--Bored unused water-table well, diameter 6 in, depth 100 ft, screened 90 to 100 ft.

DATUM.--Altitude of land-surface datum is 69 ft. Measuring point: Base of recorder shelter 5.00 ft above land-surface.

REMARKS.--Water level fluctuates with seasonal changes in flow of the Mendenhall River, 500 ft southwest of the well. Water level data for periods Nov. 21 to Jan. 17 and May 9 to June 20 were lost due to recorder failure. Prior to Oct. 1, 1980, water levels published were mean values for the day.

PERIOD OF RECORD.--June 1967 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level, 4.48 ft above land-surface datum, Sept. 13, 1981; lowest, 10.26 ft below land-surface datum, Mar. 23, 1969.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	3.06	3.73		---	4.04	5.16	4.64	6.55	---	6.37	4.76	3.93
10	3.25	4.25		---	2.76	5.01	4.87	---	---	6.19	5.11	4.42
15	3.47	5.12		---	3.73	4.86	5.45	---	---	4.75	5.01	4.96
20	3.33	5.76		7.41	3.90	5.13	5.87	---	---	2.59	5.31	5.01
25	2.83	---		7.69	4.33	4.83	6.27	---	6.26	3.21	4.37	5.30
EOM	3.14	---		6.93	4.78	4.64	6.27	---	6.26	4.15	3.97	5.45

WTR YR 1984 MEAN 4.80 HIGH 2.59 JUL 19 AND 20 LOW 7.85 JAN 28

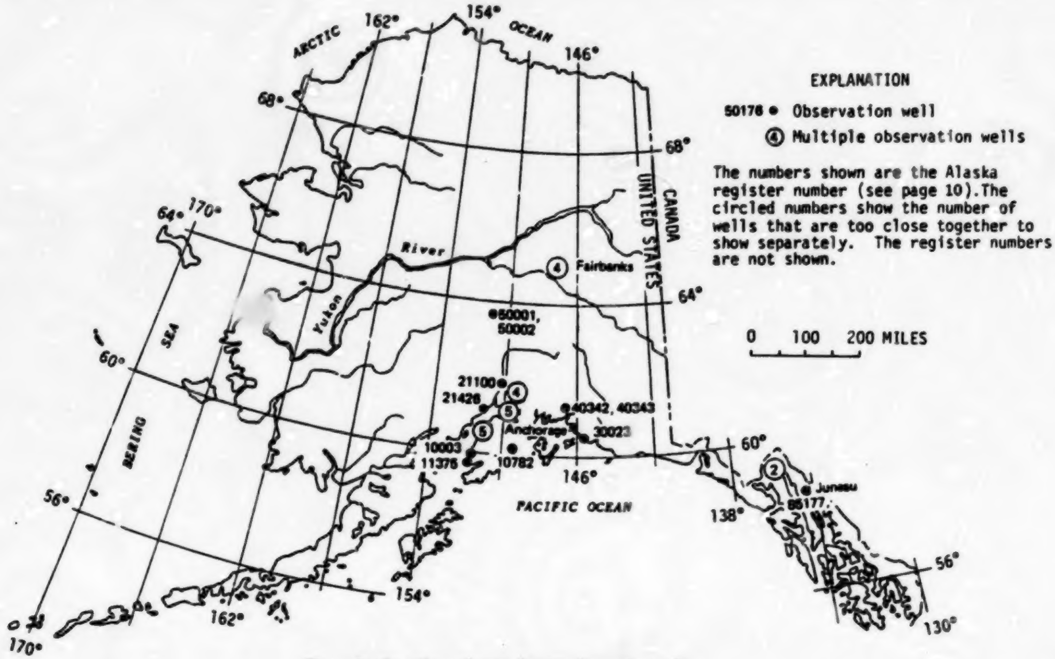
ARCTIC
162°
154°
OCEAN
146°
68°
68°
64°
170°
River
Yukon
Fairbanks
④
64°
50001,
50002
60°
SEA
BERING
21100
21426
④
⑤
⑤
40342, 40343
Anchorage
30023
10003
11376
10782
146°
60°
②
Juneau
85177
PACIFIC OCEAN
138°
56°
56°
154°
162°
170°
130°
UNITED STATES
CANADA
EXPLANATION
50178 ● Observation well
④ Multiple observation wells
The numbers shown are the Alaska register number (see page 10). The circled numbers show the number of wells that are too close together to show separately. The register numbers are not shown.
0 100 200 MILES

Figure 4. – Locations of ground-water observation wells.

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SOUTHEAST ALASKA

HAINES AREA

592242135544001. Local number, CD02905612BACB1

LOCATION.--Lat 59°22'42", long 135°54'40", Hydrologic Unit 19060000, on Tsirku Fan near Klukwan, 20 mi north of Haines. Owner: U.S. Geological Survey.

AQUIFER.--Sand and gravel of the Quaternary age.

WELL CHARACTERISTICS.--Drilled observation well, diameter 6 in, depth 220 ft, cased to 200 ft. Casing slotted 123-158 ft.

DATUM.--Altitude of land-surface datum is 161.63 ft. Measuring point: Top of casing 1.77 ft above land-surface datum.

PERIOD OF RECORD.--December 15, 1982 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest recorded water level, 22.67 ft below land-surface datum, July 18, 1984; lowest water level, 47.72 ft below land-surface datum, April 4, 1983.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	30.89	36.49	32.44	33.16	35.86	34.67	32.96	26.38	23.12		---
10	---	31.75	35.85	32.64	33.93	35.91	35.09	30.60	25.68	22.79		---
15	---	32.48	34.79	33.14	34.73	36.07	35.28	28.86	25.21	22.76		---
20	30.14	33.91	33.86	33.12	34.73	36.38	35.24	27.37	24.61	---		29.22
25	30.24	34.96	32.70	33.60	35.41	36.56	34.70	26.61	23.10	---		30.11
EOM	30.48	35.76	32.29	33.46	35.83	35.71	34.43	26.62	23.19	---		31.11

WTR YR 1984 MEAN 31.64 HIGH 22.67 JUL 18 LOW 36.76 DEC 8

592341135535501. Local number, CD02905601ABAA1

LOCATION.--Lat 59°23'41", long 135°53'55", Hydrologic Unit 19060000, on Tsirku Fan near Klukwan, north of Haines. Owner: U.S. Geological Survey.

AQUIFER.--Sand and gravel of the Quaternary System.

WELL CHARACTERISTICS.--Drilled observation well, diameter 6 in, depth 260 ft, cased to 260 ft open at bottom.

DATUM.--Altitude of land-surface datum is 116.81 ft. Measuring point: Inside of recorder housing 1.49 ft above land-surface datum.

PERIOD OF RECORD.--March 16, 1983 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest recorded water level, 1.99 ft below land-surface datum, Aug. 9, 1984; lowest recorded water level, 13.10 ft below land-surface datum, Mar. 24, 1983.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	7.03	8.61	---	9.94		---	11.00	9.81	---	---	2.94	---
10	7.61	9.29	11.66	10.24		---	11.29	---	---	---	---	---
15	7.82	9.79	10.99	10.41		---	11.29	---	---	3.02	---	6.54
20	8.05	---	10.64	10.43		---	11.31	---	4.16	3.42	---	6.75
25	8.03	---	10.48	---		12.12	11.10	---	2.70	3.32	---	7.61
EOM	8.18	---	10.25	---		11.32	10.81	---	---	3.47	---	8.12

WTR YR 1984 MEAN 8.35 HIGH 1.99 AUG 9 LOW 12.14 MAR 23

GROUND-WATER LEVELS

SOUTH-CENTRAL ALASKA

CORDOVA

603228145442601. Local number, CC01500327BDCB1004 30023.
LOCATION.--Lat 60°32'28", long 145°44'26", Hydrologic Unit 19050003, Lefevre Street near west end of Eyak Lake, Cordova. Owner: City of Cordova.
AQUIFER.--Sand and gravel of the Quaternary System.
WELL CHARACTERISTICS.--Drilled public-supply (unused) artesian well, diameter 10 in, depth 82 ft, backfilled to 71 ft, screened 48.5 to 71 ft.
DATUM.--Altitude of land surface is 32 ft (determined from topographic map).
REMARKS.--Major water-level fluctuations caused by pumping of nearby production wells. Missing record due to equipment malfunction.
PERIOD OF RECORD.--February 1973 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 5.60 ft below land-surface datum, Aug. 15 & 16, 1981; lowest, 46.88 ft below land-surface datum, Dec. 28, 1975.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	11.57	9.40	10.15	9.50	8.85	---	8.91	8.89	10.53	10.74	11.29	10.85
10	9.20	10.25	10.25	10.19	---	---	9.52	9.63	10.35	10.53	11.39	11.03
15	9.22	10.45	11.18	8.23	---	---	9.84	10.22	10.40	10.40	11.53	10.39
20	10.04	10.60	11.52	9.69	---	---	9.38	10.56	10.57	10.73	10.37	9.18
25	9.44	10.10	11.70	10.53	---	---	9.64	10.77	10.18	10.96	8.90	10.30
EOM	8.84	10.03	11.92	9.35	---	9.06	9.25	10.77	10.47	11.09	10.19	8.56

WTR YR 1984 HWL RECORDED 8.04 OCT 12 LWL RECORDED 15.23 OCT 6-7

VALDEZ

610745146105001. Local number, CC00800531DACC1001 40342.
LOCATION.--Lat 61°07'45", long 146°10'50", Hydrologic Unit 19050003, 2 mi east of Valdez airport. Owner: The Alpetco Company.
AQUIFER.--Sand and gravel of the Quaternary System.
WELL CHARACTERISTICS.--Drilled unused water-table test well, diameter 6 in, depth 76 ft, cased to 76 ft, grouted to about 30 ft, sediment in well to about 75 ft.
DATUM.--Altitude of land surface is 154.8 ft National Geodetic Vertical Datum.
REMARKS.--Missing record Nov. 1 to Jan. 15 due to equipment malfunction and sediment in well. Well is also known as Alpetco B-4.
PERIOD OF RECORD.--October 1979 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 42.07 ft below land-surface datum, Aug. 17, 1981; lowest, dry at about 75 ft Mar. 12 to May 7, 1981, latter part of Jan. to Apr. or May, 1982, Jan. 21 to May 8, 1983, and sometime during Oct. 5, 1983 and May 23, 1984.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5									---	---	47.43	47.92
10									---	---	47.06	48.75
15									---	---	47.14	49.32
20									---	48.18	47.44	49.96
25									---	47.87	47.42	50.48
EOM									54.11	47.65	---	51.09

WTR YR 1984 HWL RECORDED 46.70 JUL 28-29 LWL Dry sometime between OCT 5 and MAY 23
NOTE.--Additional water levels were measured at 52.99 on Oct. 5, dry on Mar. 28, 59.88 on May 23, 54.24 on June 26, 47.87 on Jul. 25, and 47.87 on Sept. 4.

610645146105701. Local number, CC00900506CADA1001 40343.
LOCATION.--Lat 61°06'45", long 146°10'57", Hydrologic Unit 19050003, 2.2 mi southeast of Valdez airport. Owner: The Alpetco Company.
AQUIFER.--Sand and gravel of the Quaternary System.
WELL CHARACTERISTICS.--Drilled unused water-table test well, diameter 6 in, depth 85 ft, cased to 56 ft, grouted to about 30 ft. Well has caved below bottom of casing at 56 ft.
DATUM.--Altitude of land surface is 84.6 ft National Geodetic Vertical Datum.
REMARKS.--Missing record due to equipment malfunction. Well is also known as Alpetco B-8.
PERIOD OF RECORD.--October 1979 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 0.27 ft above land-surface datum, Aug. 7, 1981; lowest recorded, 24.79 ft below land-surface datum, Apr. 16-19, 1983.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5					---	---	22.43	16.89	---	4.78	4.36	4.64
10					---	---	22.22	8.35	---	4.45	4.30	4.72
15					19.02	---	22.01	6.24	---	4.45	4.43	4.68
20					---	---	21.60	5.75	---	4.29	4.31	4.61
25					---	---	20.72	---	---	4.37	3.69	4.84
EOM					---	22.39	19.48	---	4.75	4.39	4.49	4.69

WTR YR 1984 HWL RECORDED 3.69 AUG 25 LWL RECORDED 22.43 R 31-APR 5
NOTE.--Additional water levels were measured at 4.77 on Oct. 5, 18.09 on Feb. 7, 22.. on Mar. 28, 5.54 on May 23, 4.79 on June 26, 4.38 on Jul. 25, and 4.65 on Sept. 4.

SOUTH-CENTRAL ALASKA

KENAI PENINSULA BOROUGH

600808149254802. Local number, SB00100134CADC2003 10782.
LOCATION.--Lat 60°07'52", long 149°25'56", Hydrologic Unit 19050003, at Fort Raymond Army recreation camp, near Seward. Owner: City of Seward.
AQUIFER.--Sand and gravel of the Quaternary System.
WELL CHARACTERISTICS.--Drilled unused artesian test well, diameter 8 in, depth 141 ft, screen reportedly installed at bottom of well.
DATUM.--Altitude of land surface is 46 ft (determined from topographic map).
REMARKS.--Water levels are affected by nearby pumping.
PERIOD OF RECORD.--July to August 1964, October 1976 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 13.07 ft below land-surface datum, Dec. 1, 1976; lowest, 27.72 ft below land-surface datum, Apr. 14, 1979.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	23.51	21.66	18.33	22.35	22.14	23.05	21.63	21.96	22.77	22.65	24.40	22.46
10	23.74	21.35	19.89	22.35	22.58	21.93	21.77	21.95	22.95	21.51	24.68	22.76
15	23.03	21.05	22.01	17.57	23.04	21.20	22.01	21.94	23.32	23.84	24.96	22.67
20	22.83	21.42	22.65	19.19	23.02	21.60	22.26	22.57	22.87	24.05	24.08	22.11
25	22.22	20.23	22.51	20.72	23.29	22.02	23.21	22.74	22.66	24.30	22.21	22.92
EOM	22.10	19.45	22.74	21.48	23.42	21.97	22.22	23.41	22.62	24.54	21.85	22.71

WTR YR 1984 HWL 17.57 JAN 15 LWL 25.58 AUG 18

594019151351201. Local number, SC00601412CAAB1001 11375.
LOCATION.--Lat 59°40'19", long 151°35'12", Hydrologic Unit 19050002, Pitzman Avenue on Diamond Ridge, Homer. Owner: Becky Fox-Krogstad.
AQUIFER.--Sandstone and conglomerate of the Tertiary System.
WELL CHARACTERISTICS.--Drilled domestic well, diameter 6 in, depth 56 ft, cased to 47.5 ft, backfilled with gravel to 49 ft.
DATUM.--Altitude of land surface is 1,150 ft (determined from topographic map).
PERIOD OF RECORD.--June 1978 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.57 ft below land surface datum, May 8, 1979; lowest measured, 11.74 ft below land-surface datum, Mar. 16, 1983.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 18	10.35	FEB 16	10.83	APR 12	10.85	JUN 07	10.08	JUL 26	11.18	SEP 07	10.52
DEC 16	9.20										

594515151492201. Local number, SC00501510CCAC1001 10003.
LOCATION.--Lat 59°45'15", long 151°49'22", Hydrologic Unit 19050002, mile 161, Old Sterling Highway near Anchor Point. Owner: Raymond Williams.
AQUIFER.--Sand and gravel of the Quaternary or Tertiary System.
WELL CHARACTERISTICS.--Drilled domestic artesian well, diameter 6 in, depth 100 ft, perforated liner 91 to 100 ft.
DATUM.--Altitude of land surface is 240 ft (determined from topographic map).
PERIOD OF RECORD.--May 1962 to September 1970, May 1972 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 35.85 ft below land-surface datum, May 31, 1963; lowest measured, 47.89 ft below land-surface datum, June 20, 1964.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 19	38.17	FEB 17	36.97	APR 12	37.65	JUN 07	37.64	JUL 27	38.24	SEP 07	38.13
DEC 16	36.94										

KENAI PENINSULA BOROUGH--Continued

602926151042201. Local number, SB00501029CDAC1001 10001.
LOCATION.--Lat 60°29'26", long 151°04'22", Hydrologic Unit 19050002, Mt. Redoubt Way, Soldotna. Owner: Charles S. Parker.
AQUIFER.--Gravel of the Quaternary System.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 8 in, depth 100 ft, cased to 100 ft, perforated 81 to 97 ft.
DATUM.--Altitude of land surface is 94 ft (determined from topographic map).
PERIOD OF RECORD.--March 1963 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 2.38 ft below land-surface datum, June 28, 1963; lowest, 14.33 ft below land-surface datum, June 3, 1984.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	4.90	5.06	7.43	6.14	5.15	7.47	7.25	8.20	10.09	6.11	6.73	8.44
10	5.32	4.98	6.21	5.02	5.01	7.32	7.25	8.88	10.65	6.90	7.58	6.27
15	5.94	4.87	6.23	4.98	5.29	7.16	7.37	8.93	12.64	8.88	8.62	5.68
20	6.38	4.96	5.84	6.21	5.10	7.29	7.42	9.45	9.84	9.31	7.33	6.45
25	4.92	4.96	5.52	6.51	5.12	7.21	8.57	11.13	8.20	6.87	6.33	6.23
EOM	5.13	4.89	6.12	5.73	6.29	7.27	7.81	10.93	8.80	7.59	6.26	6.08

WTR YR 1984 HWL 4.71 OCT 28 LWL 14.33 JUN 3

603846151002701. Local number, SB00601003ABAC1001 10646.
LOCATION.--Lat 60°38'46", long 151°00'27", Hydrologic Unit 19050002, Marathon Oil Well Road in Beaver Creek basin, Kenai area. Owner: Marathon Oil.
AQUIFER.--Sand and gravel of the Quaternary System.
WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 6 in, depth 65 ft, cased to 65 ft.
DATUM.--Altitude of land surface is 150 ft (determined from topographic map).
REMARKS.--Missing record due to equipment malfunction.
PERIOD OF RECORD.--August 1968 to November 1973, April 1976 to current year.
EXTREMES FOR PERIOD OF RECORD.-Highest water level, 8.66 ft below land-surface datum, Nov. 15 and 16, 1979; lowest, 14.26 ft below land-surface datum, Apr. 4, 1969.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	11.11	10.88	11.14		11.39	11.41	10.94	11.08	10.90	11.03	11.16	10.77
10	10.72	10.87	11.18		11.36	11.41	10.95	11.05	10.81	11.01	11.27	10.88
15	10.66	10.94	---		11.41	11.28	10.97	11.11	10.82	10.91	11.38	10.91
20	10.67	11.03	---		11.43	11.31	11.01	11.11	10.76	10.99	10.93	---
25	10.74	11.08	---		11.46	11.33	11.14	11.14	10.85	11.09	10.59	---
EOM	10.81	11.09	---		11.43	11.10	11.03	10.93	10.95	11.10	10.69	---

WTR YR 1984 HWL RECORDED 10.59 AUG 25 LWL RECORDED 11.47 FEB 25 & 26

604038151204303. Local number, SB00701223CCDB3008 10004.
LOCATION.--Lat 60°40'38", long 151°20'43", Hydrologic Unit 19050002, mile 1, Miller Loop Road, North Kenai. Owner: Union Chemical Company.
AQUIFER.--Sand and gravel of the Quaternary System.
WELL CHARACTERISTICS.--Drilled observation artesian well, diameter 6 in, depth 112 ft, screened 106 to 110 ft.
DATUM.--Land surface is 129.7 ft National Geodetic Vertical Datum.
REMARKS.--Water levels are affected by nearby pumping. Well is also known as Union Chemical 5B.
PERIOD OF RECORD.--December 1967 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 46.52 ft below land-surface datum, Feb. 7, 1968; lowest, 65.94 ft below land-surface datum, June 16, 1978.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	57.32	58.15	57.52	58.05	57.72	58.25	57.85	58.38	57.95	58.18	58.94	58.70
10	57.50	57.96	57.46	57.76	58.19	57.44	58.50	57.90	57.77	---	58.56	58.70
15	57.56	57.79	57.69	57.53	58.21	57.59	57.71	57.72	57.74	---	59.00	58.98
20	57.81	57.92	58.49	57.89	57.84	58.30	57.87	57.91	57.75	58.22	57.91	59.12
25	57.70	57.95	57.93	58.10	57.76	57.81	57.28	58.09	58.28	58.17	58.33	59.47
EOM	57.48	57.78	57.67	57.64	57.71	58.08	57.70	57.86	57.94	57.54	58.46	59.14

WTR YR 1984 HWL 55.69 NOV 22 LWL 60.08 SEP 29

604133151214803. Local number, SB00701215DCBC3004 11216.
LOCATION.--Lat 60°41'33", long 151°21'48", Hydrologic Unit 19050002, Bernice Lake campground, North Kenai.
Owner: U.S. Geological Survey.
AQUIFER.--Sand and gravel of the Quaternary System.
WELL CHARACTERISTICS.--Drilled water-table test well, diameter 6 in, depth 52.4 ft, cased to 52.4 ft.
DATUM.--Land surface is 84.6 ft National Geodetic Vertical Datum.
REMARKS.--Well is 4 ft east of well 10941.
PERIOD OF RECORD.--June 1977 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 7.74 ft below land-surface datum, Dec. 2, 1980; lowest, 13.38 ft below land-surface datum, Oct. 7, 1978.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 03	11.42	FEB 01	11.80	MAY 15	11.68	JUL 17	12.61	JUL 18	12.63	SEP 12	13.10
NOV 30	11.42	MAR 21	12.08								

604133151214802. Local number, SB00701215DCBC2004 10941.
LOCATION.--Lat 60°41'33", long 151°21'48", Hydrologic Unit 19050002, Bernice Lake campground, North Kenai.
Owner: State of Alaska.
AQUIFER.--Sand and gravel of the Quaternary System.
WELL CHARACTERISTICS.--Drilled artesian test well, diameter 6 in, depth 202 ft, cased to 191 ft, screened 191 to 196 ft.
DATUM.--Land surface is 84.6 ft National Geodetic Vertical Datum.
PERIOD OF RECORD.--June 1972 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 8.23 ft below land-surface datum, Nov. 3, 1980; lowest, 14.08 ft below land-surface datum, Sept. 10, 1978.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	12.04	11.94	12.02	12.26	12.43	12.69	12.68	12.27	12.73	13.11	13.51	13.70
10	11.91	11.95	12.04	12.29	12.47	12.63	13.03	12.26	12.76	13.18	13.59	13.72
15	11.84	11.95	12.10	12.35	12.52	12.59	12.77	12.33	12.88	13.22	13.62	13.74
20	11.84	12.07	12.15	12.32	12.57	12.68	12.60	12.46	12.93	13.33	13.55	13.78
25	11.92	12.05	12.17	12.35	12.63	12.85	12.54	12.58	12.99	13.34	13.49	13.59
EOM	11.95	12.03	12.22	12.40	12.63	12.87	12.35	12.62	13.06	13.44	13.59	13.50

WTR YR 1984 HWL 11.81 OCT 13 LWL 13.84 SEP 18 & 22

610647151153001. Local number, SB01201120DBDD1001 21426.
LOCATION.--Lat 61°06'47", long 151°15'30", Hydrologic Unit 19050002, Chuitna well 4 mi northwest of Tyonek.
Owner: U.S. Geological Survey.
AQUIFER.--Claystone and coal of the Tertiary System.
WELL CHARACTERISTICS.--Drilled artesian observation well, hole diameter 6 in to 83 ft and 4 in diameter to 320 ft; 6 in steel casing to 43 ft, 4 in plastic pipe to 206 ft, perforated 106 to 206 ft, clay plug in pipe 194 to 206 ft.
DATUM.--Altitude of land surface is 210 ft (determined from topographic map).
CORRECTIONS.--Lowest water level previously published as 32.44 ft on July 30 and 31, 1981 was in error. Lowest water level for period of record is 32.15 on May 27,1980.
REMARKS.--Missing record due to equipment malfunction.
PERIOD OF RECORD.--December 1977 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 20.06 below land-surface datum, Apr. 27, 1978; lowest. 32.15 ft below land-surface datum, May 27, 1980.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	25.52	25.27	26.61	27.32	---	29.50	25.19	27.19	25.74	27.41	27.14	24.50
10	25.67	26.67	26.37	27.34	---	26.89	26.12	27.30	28.65	26.73	26.93	25.61
15	24.41	27.05	27.19	27.39	---	25.90	23.86	28.42	28.07	26.19	27.34	25.87
20	25.41	26.56	27.24	27.19	---	25.84	24.52	28.64	28.46	26.10	25.27	25.58
25	26.91	26.43	27.16	---	29.38	26.28	26.01	28.84	25.96	27.06	23.87	25.44
EOM	26.21	26.41	27.33	---	29.49	26.13	25.96	26.62	27.69	27.04	---	24.74

WTR YR 1984 HWL RECORDED 23.35 SEP 3 LWL RECORDED 30.34 MAY 31

SOUTH-CENTRAL ALASKA

MUNICIPALITY OF ANCHORAGE

611049149545101. Local number, SB01300436BAAC1041 02368.
LOCATION.--Lat 61°10'49", long 149°54'51", Hydrologic Unit 19050002, Harding Drive and 45th Street, Anchorage. Owner: U.S. Geological Survey.
AQUIFER.--Sand and gravel of the Quaternary System.
WELL CHARACTERISTICS.--Drilled observation water-table well, diameter 6 in, depth 18.5 ft, screened 13.5 to 18.5 ft.
DATUM.--Altitude of land surface is 88 ft (determined from topographic map).
PERIOD OF RECORD.--June 1974 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 11.50 ft below land-surface datum, Oct. 21, 1980; lowest measured, 14.39 ft below land-surface datum, Mar. 23, 1984.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 21	12.74	DEC 22	13.11	FEB 23	14.05	APR 24	12.68	JUN 21	12.47	AUG 27	12.39
NOV 23	12.98	JAN 25	13.79	MAR 23	14.39	MAY 24	12.55	JUL 24	12.65	SEP 20	12.61

611149149553901. Local number, SB01300423DDDB1002 00280.
LOCATION.--Lat 61°11'49", long 149°55'39", Hydrologic Unit 19050002, West Northern Lights Boulevard and Lahonda Drive, Anchorage. Owner: Municipality of Anchorage.
AQUIFER.--Sand and gravel of the Quaternary System.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in, depth 283 ft, screened 278 to 283 ft.
DATUM.--Altitude of land surface is 47 ft (determined from topographic map).
REMARKS.--Water levels are affected by nearby pumping. Tide effect in well is about 0.2 ft. Missing record due to equipment malfunction.
PERIOD OF RECORD.--September 1962 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, flowing over top of casing, 1962 to 1963; lowest, 13.02 ft below land-surface datum, Apr. 2, 1964.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	5.76	4.94	4.74				---	8.79	9.90	---	10.45	9.93
10	5.27	4.79	4.64				---	---	---	10.87	---	9.65
15	5.26	4.85	4.99				---	8.90	10.18	---	---	9.10
20	5.09	4.76	4.82				---	9.13	---	---	---	8.95
25	5.13	4.71	---				8.65	9.74	10.55	10.65	---	8.69
EOM	5.07	4.68	---				8.47	9.89	10.64	10.45	10.35	8.21

WTR YR 1984   HWL RECORDED 4.60   DEC 1 AND 2   LWL RECORDED 11.24   JUL 15

611311149510401. Local number, SB01300317BDAD1003 00114.
LOCATION.--Lat 61°13'11", long 149°51'04", Hydrologic Unit 19050002, 3rd and Concrete Avenues, Anchorage. Owner: Municipality of Anchorage.
AQUIFER.--Sand and gravel of the Quaternary System.
WELL CHARACTERISTICS.--Drilled artesian test well, diameter 8 in, depth 230 ft, slotted 162 to 182 ft and 190 to 201 ft.
DATUM.--Land surface is 129.3 ft National Geodetic Vertical Datum.
REMARKS.--Water-level fluctuation caused by nearby pumping. Datum was established prior to the 1964 earthquake; no adjustments have been determined.
PERIOD OF RECORD.--October 1956 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 28.88 ft below land-surface datum, Nov. 29, 1957; lowest measured, 128.17 below land-surface datum, Apr. 19, 1976.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 20	45.52	DEC 23	45.25	FEB 27	47.19	APR 24	85.62	JUN 21	100.64	AUG 24	59.85
NOV 22	45.66	JAN 26	60.01	MAR 23	66.12	MAY 23	103.30	JUL 24	81.92	SEP 20	72.44

GROUND-WATER LEVELS

SOUTH-CENTRAL ALASKA

MUNICIPALITY OF ANCHORAGE--Continued

611336149454401. Local number, SB01300311CDAD1003 00067.
LOCATION.--Lat 61°13'36", long 149°45'44", Hydrologic Unit 19050002, near Glenn Highway and Boniface Parkway, Anchorage. Owner: U.S. Air Force.
AQUIFER.--Sand and gravel of the Quaternary System.
WELL CHARACTERISTICS.--Drilled unused artesian well, diameter 6 in, depth 187 ft, cased to 187 ft.
DATUM.--Altitude of land surface is 210 ft (determined from topographic map).
REMARKS.--Water levels are affected by nearby pumping. Missing record due to vandalism.
PERIOD OF RECORD.--September 1959 to October 1962, September 1966 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 14.88 ft below land-surface datum, Oct. 28, 1960; lowest, 34.77 ft below land-surface datum, May 14 and 18, 1971.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	22.34	22.44	23.02	---	25.87	25.33	27.07					
10	22.68	22.41	22.80	---	24.80	25.09	27.35					
15	22.66	23.09	23.08	---	25.00	26.12	26.61					
20	22.10	22.71	23.37	---	25.18	26.43	26.35					
25	22.35	22.90	24.85	---	25.03	26.67	---					
EOM	22.46	22.82	27.52	25.63	24.62	27.20	---					

WTR YR 1984 HWL RECORDED 22.10 OCT 20 LWL RECORDED 29.91 sometime during JAN 4-26
NOTE.--Additional water levels were measured at 24.97 on Jul. 23, 28.37 on Aug. 24, and 27.62 on Sept. 21.

611444149415401. Local number, SB01300206DBBA1004 00017.
LOCATION.--Lat 61°14'44", long 149°41'54", Hydrologic Unit 19050002, Arctic Valley Road, Fort Richardson. Owner: U.S. Geological Survey.
AQUIFER.--Sand and gravel of the Quaternary System.
WELL CHARACTERISTICS.--Drilled artesian test well, diameter 6 in, depth 670 ft, cased to 134 ft, backfilled with gravel to 134 ft and plugged, perforated 90 to 120 ft and 130 to 134 ft.
DATUM.--Altitude of land surface is 294 ft (determined from topographic map).
REMARKS.--Water levels affected by nearby pumping. Missing record due to equipment malfunction.
PERIOD OF RECORD.--August 1954 to June 1962, September 1966 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, 42.15 ft below land-surface datum, Oct. 28, 1960; lowest, 66.49 ft below land-surface datum, May 15, 1971.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	52.65				---	58.49	---	59.67	59.58	59.89	58.15	59.32
10	52.91				---	57.19	---	59.67	57.97	60.06	59.07	60.21
15	53.22				---	58.02	---	59.64	58.25	59.33	---	60.44
20	---				---	59.42	---	59.39	59.54	59.32	---	61.09
25	53.16				57.00	---	60.21	59.05	60.23	59.15	59.22	61.28
EOM	53.30				56.56	---	59.36	58.50	60.87	58.58	59.16	61.83

WTR YR 1984 HWL RECORDED 52.31 OCT 1 LWL RECORDED 61.89 SEP 30

MATANUSKA-SUSITNA BOROUGH

613417149065401. Local number, SA01700209CCCB1009 20004.
LOCATION.--Lat 61°34'20", long 149°06'50", Hydrologic Unit 19050002, Springer Road, 2 mi south of Palmer. Owner: Glenn Woods.
AQUIFER.--Sand and gravel of the Quaternary System.
WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 4 in , depth 83 ft, cased to 82 ft, slotted at bottom.
DATUM.--Altitude of land surface is 170 ft (determined from topographic map).
PERIOD OF RECORD.--July 1949 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 69.58 ft below land-surface datum, July 29, 1964; lowest measured, 77.36 ft below land-surface datum, Mar. 26, 1975.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 27	69.63	DEC 27	72.03	FEB 27	72.04	APR 26	72.36	MAY 23	72.47	JUL 11	71.17
NOV 29	71.89	JAN 27	71.92	MAR 27	71.96						

GROUND-WATER LEVELS

SOUTH-CENTRAL ALASKA

MATANUSKA-SUSITNA BOROUGH--Continued

613403149151001. Local number, SA01700115BDAB1003 20011.
LOCATION.--Lat 61°34'03", long 149°15'10", Hydrologic Unit 19050002, University of Alaska Agricultural Experiment Station, 5 mi southwest of Palmer. Owner: University of Alaska.
AQUIFER.--Sand and gravel of the Quaternary System.
WELL CHARACTERISTICS.--Dug unused water-table well, depth 40 ft, diameter unknown.
DATUM.--Altitude of land surface is 173 ft (determined from topographic map).
PERIOD OF RECORD.--December 1955 to August 1974, March 1977 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 25.61 ft below land-surface datum, July 10, 1956; lowest measured, 29.75 ft below land-surface datum, Feb. 5, 1971.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 27	26.39	DEC 27	26.40	FEB 27	26.44	APR 26	26.10	JUL 11	26.36	AUG 23	26.44
NOV 29	26.38	JAN 27	26.39	MAR 27	26.27	MAY 23	26.24				

613406149152103. Local number, SA01700115BACD3004 20013.
LOCATION.--Lat 61°34'06", long 149°15'21", Hydrologic Unit 19050002, University of Alaska Agricultural Experiment Station, 5 mi southwest of Palmer. Owner: U.S. Geological Survey.
AQUIFER.--Sand and gravel of the Quaternary System.
WELL CHARACTERISTICS.--Drilled artesian observation well, diameter 6 in, depth 313 ft, cased to 313 ft.
DATUM.--Altitude of land surface is 172 ft (determined from topographic map).
REMARKS.--Missing record due to equipment malfunction.
PERIOD OF RECORD.--September 1955 to August 1974, February 1977 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.42 ft below land-surface datum, June 28, 1962; lowest measured, 31.50 ft below land-surface datum, Apr. 1, 1964.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	10.64	11.24	11.39	11.14	11.91	12.45	12.50	12.87	13.12	13.25	10.46
10	---	10.64	11.13	11.06	11.16	11.97	12.42	---	13.27	13.07	13.32	10.52
15	---	10.71	11.54	11.28	11.39	12.09	12.43	---	13.17	13.09	12.53	10.39
20	---	10.94	11.69	10.95	11.43	12.36	12.46	---	13.13	13.46	11.79	10.39
25	---	10.99	11.57	10.75	11.63	12.21	12.79	---	12.91	13.25	10.91	10.48
EOM	10.48	11.08	11.30	10.92	11.59	12.49	12.31	13.09	13.01	13.35	10.68	10.14

WTR 1984 HWL RECORDED 10.14 SEP 30 LWL RECORDED 15.07 JUL 30

613406149152102. Local number, SA01700115BACD2004 20014.
LOCATION.--Lat 61°34'06" long 149°15'21", Hydrologic Unit 19050002, University of Alaska Agricultural Experiment Station, 5 mi southwest of Palmer. Owner: U.S. Geological Survey.
AQUIFER.--Sand and gravel of the Quaternary System.
WELL CHARACTERISTICS.--Drilled artesian observation well, depth 259 ft; 8 in casing to 34.4 ft, 6 in casing to 49 ft, 4 in casing from 29 ft to unknown depth, perforated 155.5 to 156.5 ft.
DATUM.--Altitude of land surface is 172 ft (determined from topographic map).
PERIOD OF RECORD.--September 1955 to August 1974, February 1977 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level, flowing over top of casing (3.5 ft above land surface), Aug. 1962 to Mar. 1964; lowest measured, 2.33 ft below land-surface datum, July 26, 1979.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 27	.51	DEC 27	.59	MAR 27	.48	MAY 23	.54	JUL 11	.78	AUG 23	.69
NOV 29	.59	FEB 27	.44	APR 26	.57						

614147150013801. Local number, SB01900432ADBD1001 21100.
LOCATION.--Lat 61°41'47", long 150°01'38", Hydrologic Unit 19050002, northwest corner of Nancy Lake Recreation maintenance facility, 3 mi south of Willow. Owner: State of Alaska.
AQUIFER.--Sand and gravel of the Quaternary System.
WELL CHARACTERISTICS.--Drilled institution water-table well, diameter 6 in, depth 69 ft, screened 64 to 69 ft.
DATUM.--Altitude of land surface is 260 ft (determined from topographic map).
PERIOD OF RECORD.--March 1977 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 46.89 ft below land-surface datum, Oct. 15, 1980; lowest measured, 50.54 ft below land-surface datum, Apr. 4, 1979.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
MAR 14	48.56	MAY 17	48.53	JUN 25	48.43	JUL 30	49.04	AUG 09	48.68	SEP 11	48.86

FAIRBANKS NORTH STAR BOROUGH

644400147151501. Local number, FD00200224ABBB1001 51659.
LOCATION.--Lat 64°44'00", long 147°15'15", Hydrologic Unit 19030004, at intersection of Nelson and Laurence Roads near North Pole. Owner: U.S. Army Corps of Engineers.
AQUIFER.--Chena Alluvium of Quaternary age.
WELL CHARACTERISTICS.--Drilled water-table well, diameter 4 in, depth 40 ft, casing information not available.
DATUM.--Altitude of land-surface datum is 503.5 ft National Geodetic Vertical Datum. Measuring point: Top of casing 2.97 ft above land-surface datum.
REMARKS.--Observation well drilled by the U.S. Army Corps of Engineers.
PERIOD OF RECORD.--June 1976 to May 1980, November 1983 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 10.77 ft below land-surface datum, August 8, 1984; lowest water level measured, 13.65 ft below land-surface datum, April 14, 1978.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5		---	12.28				---	12.44	12.38	11.20	10.78	11.15
10		---	12.37				---	12.39	12.46	11.11	10.77	11.27
15		---	12.44				12.74	12.39	12.50	11.09	10.84	11.36
20		---	12.46				12.74	12.39	12.23	11.08	10.95	11.49
25		12.26	---				12.74	12.39	11.62	10.98	10.99	11.59
EOM		12.26	---				12.61	12.35	11.33	10.83	11.05	11.68

WTR YR 1984 HWL 10.77 AUG 8-10 LWL 12.74 APR 13-26

644944147402501. Local number, FC00100113BCCC1022 50006.
LOCATION.--Lat 64°49'44", long 147°40'25", Hydrologic Unit 19030004, at former building site 4005, Fort Wainwright. Owner: U.S. Army.
AQUIFER.--Chena Alluvium of Quaternary age.
WELL CHARACTERISTICS.--Drilled water-table well, diameter 8 in, depth 113 ft, cased to 100 ft, and screened from 100 ft to 113 ft.
DATUM.--Altitude of land-surface datum is 442.80 ft National Geodetic Vertical Datum. Measuring point: Top of casing 1.5 ft above land-surface datum.
REMARKS.--Observation well drilled by the U.S. Army. Water analysis available.
PERIOD OF RECORD.--August 1964 to June 1970, March 1976 to current year.
EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.67 ft above land-surface datum, August 15, 1967, due to flooding; lowest water level measured, 16.13 ft below land-surface datum, Apr. 7, 1969.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	13.41	13.74	14.30			---	14.55	13.39	13.26	12.22	13.02
10	---	13.27	---	---			---	13.95	13.71	13.00	12.45	13.19
15	---	13.26	---	---			15.20	13.82	13.83	13.23	12.57	13.34
20	13.21	13.04	14.08	14.54			15.23	13.46	13.36	13.21	12.75	13.51
25	12.96	13.59	14.18	14.64			15.23	13.18	12.91	12.45	12.87	13.65
EOM	12.96	13.64	14.27	---			15.06	13.08	13.06	11.95	12.83	13.78

WTR YR 1984 HWL 11.95 JUL 30,31 LWL 15.25 APR 22,24

645434147385101. Local number, FB00100113DDBC2001.
LOCATION.--Lat 64°54'34", long 147°38'51", Hydrologic Unit 19030004, in road right-of-way at 2.3 mi McGrath Road near Fairbanks. Owner: U.S. Geological Survey.
AQUIFER--Quartz-mica schist of pre-Jurassic age.
WELL CHARACTERISTICS.--Drilled artesian well, diameter 6 in, depth 100 ft, perforated openings from 88.5 ft to 98.5 ft, open hole to 100 ft.
DATUM.--Altitude of Land-surface datum is 740 ft NGVD. Measuring point: Top of casing 1.0 ft above land-surface datum.
REMARKS.--Observation well drilled by the U.S. Geological Survey replaces old McGrath Estates well, 6454291473838 Partial water analysis available.
PERIOD OF RECORD.--June 1983 to current year.
EXTREMES FOR PERIOD OF RECORD--Highest water level measured, 39.13 ft below land-surface datum, Oct. 28, 1983; lowest water level measured 41.39 ft below land-surface datum, June 7, 1983.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	---	39.41	39.52	39.76	39.81	40.09	40.19	40.34	40.21	40.40	40.25	40.23
10	---	39.23	39.44	39.61	39.81	40.09	40.32	40.21	40.30	40.37	40.22	40.36
15	39.31	39.26	39.65	39.89	39.92	40.10	40.23	40.22	40.25	40.37	40.21	40.19
20	39.25	39.32	39.61	39.64	39.97	40.20	40.22	40.20	40.36	40.42	40.36	40.41
25	39.35	39.39	39.53	39.81	40.06	40.15	40.42	40.30	40.27	40.29	40.03	40.30
EOM	39.32	39.34	39.55	39.77	40.09	40.25	40.18	40.22	40.33	40.25	40.23	40.19

WTR YR 1984 HWL 39.13 OCT 28 LWL 40.45 SEP 21

FAIRBANKS NORTH STAR BOROUGH--Continued

645442147461601. Local number, FB00100117DBAD1001 50176.

LOCATION.--Lat 64°54'38", long 147°46'45", Hydrologic Unit 19030004, 1.4 mi northwest of intersection of Farmers Loop Road and Ski Boot Hill Road, near Fairbanks. Owner: U.S. Geological Survey.

AQUIFER.--Quartz-mica schist of pre-Jurassic age.

WELL CHARACTERISTICS.--Drilled observation well, diameter 6 in, depth 565 ft, cased to 370 ft, and open hole to 565 ft.

DATUM.--Altitude of land-surface datum is 1282.92 ft National Geodetic Vertical Datum. Measuring point: Top of casing 1.98 ft above land-surface datum.

REMARKS.--U.S. Army named well B-61. Water levels prior to 1981 were published in feet above National Geodetic Vertical Datum. Substract the old published value at NGVD from land-surface datum of 1282.92 ft to convert these levels to feet below land-surface datum.

PERIOD OF RECORD.--May 1975 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 473.53 ft below land-surface datum, May 28, 1975; lowest water level measured, 502.00 ft below land-surface datum, September 19, 1984.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984
MINIMUM VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
5	500.80	500.90	501.10	501.10	501.20	501.50	501.50	501.60	501.70	501.80	501.90	502.10
10	500.70	500.90	501.10	501.00	501.30	501.50	501.50	501.60	501.70	501.80	502.00	502.00
15	500.90	500.90	501.10	501.30	501.40	501.50	501.50	501.60	501.70	501.80	502.00	502.00
20	500.80	500.90	501.10	501.20	501.40	501.50	501.50	501.60	501.70	501.80	502.10	502.00
25	500.90	501.00	501.00	501.10	501.50	501.50	501.60	501.70	501.70	501.80	502.10	502.00
EOM	500.90	501.00	501.00	501.20	501.40	501.50	501.50	501.70	501.70	501.90	502.10	502.10

WTR YEAR 1984 HWL 500.70 OCT 10 LWL 502.00 SEP 10-25

DENALI NATIONAL PARK
(Formerly McKinley Park)

634355148550501. Local number, FC01400704BDAB1002 50002.

LOCATION.--Lat 63°43'55", long 148°55'05", Hydrologic Unit 19030004, near SW corner of original Denali National Park Hotel. Owner: U.S. National Park Service.

AQUIFER.--Fractured schist of Precambrian era.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 8 in, depth 307 ft, cased to 304 ft, perforated 150 to 199.5 ft.

DATUM.--Altitude of land surface is 1,750 ft (determined from topographic map).

REMARKS.--Twenty-six measurements were made by U.S. National Park Service personnel. Measurements on Jun. 25, Jul. 20, and Sept. 11, were made by U.S. Geological Survey personnel.

PERIOD OF RECORD.-- June 1965 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 89.26 ft below land-surface datum, Oct. 4, 1969; lowest measured, 100.60 ft below land-surface datum, June 22, 1974.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 09	94.03	APR 09	98.55	MAY 18	99.08	JUN 25	98.36	AUG 03	96.94	SEP 04	96.18
OCT 17	94.48	APR 16	98.50	JUN 01	94.08	JUL 07	97.71	AUG 07	96.67	SEP 11	96.05
DEC 08	95.35	APR 23	98.92	JUN 08	99.16	JUL 14	97.55	AUG 14	95.75	SEP 18	96.06
MAR 26	98.26	APR 30	99.88	JUN 12	99.02	JUL 20	97.25	AUG 24	96.15	SEP 28	96.12
APR 02	98.10	MAY 11	99.08	JUN 22	98.71	JUL 27	96.92	AUG 28	96.23		

634359148545401. Local number, FC01400704ABCC1001 50001.

LOCATION.--Lat 63°43'59", long 148°54'54", Hydrologic Unit 19030004, near Denali National Park Hotel. Owner: U.S. National Park Service.

AQUIFER.--Fractured schist of Precambrian era.

WELL CHARACTERISTICS.--Drilled unused water-table well, diameter 8 in, depth 253 ft cased to 204 ft.

DATUM.--Altitude of land surface is 1,750 ft (determined from topographic map).

REMARKS.--Water levels are affected by nearby pumping. Forty-two measurements were made by U.S. National Park Service personnel. Measurements on Jun. 25, Jul. 19, 20, and Sept. 11, 18, were made by U.S. Geological Survey personnel.

PERIOD OF RECORD.--August 1964 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 81.33 ft below land-surface datum, June 2, 1980; lowest measured, 109.42 ft below land-surface datum, Apr. 10, 1966.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1983 TO SEPTEMBER 1984

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 09	96.36	DEC 23	95.61	MAR 06	98.50	APR 30	99.67	JUN 29	98.86	AUG 14	96.48
OCT 17	96.01	JAN 17	96.72	MAR 13	98.18	MAY 11	99.15	JUL 07	98.41	AUG 24	95.48
OCT 31	95.43	JAN 24	95.18	MAR 19	98.68	MAY 18	99.48	JUL 14	98.06	AUG 28	95.32
NOV 14	94.45	JAN 31	96.32	MAR 26	98.64	JUN 01	99.19	JUL 19	97.62	SEP 04	94.96
NOV 21	94.27	FEB 11	97.32	APR 02	99.18	JUN 08	98.29	JUL 20	97.61	SEP 11	94.86
NOV 28	94.62	FEB 14	97.49	APR 09	99.47	JUN 12	98.96	JUL 27	96.94	SEP 18	95.00
DEC 08	94.84	FEB 21	97.79	APR 16	99.34	JUN 22	99.08	AUG 03	95.99	SEP 28	95.14
DEC 13	95.10	MAR 03	96.18	APR 23	99.61	JUN 25	98.88	AUG 07	95.55		

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QUALITY OF GROUND WATER

WATER QUALITY DATA COLLECTED FROM WELLS DURING WATER YEAR 1984

SOUTHEAST ALASKA

MENDENHALL VALLEY WELLS

STATION NUMBER	LOCAL IDENT-I-FIER	DATE OF SAMPLE	TIME	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET) (72019)	DEPTH OF WELL, TOTAL (FEET) (72008)	SAMPLING METHOD, CODES (82398)	FLOW RATE, INSTANTANEOUS (GPM) (00059)	SPECIFIC CONDUCTANCE (UMHOS) (00095)	SPECIFIC CONDUCTANCE LAB (UMHOS) (90095)
582156134343101	CD04006631ABBA1 015	84-08-13	1230	35.00	--	1/4030	45	120	--
582244134352401	CD04006630BBBC1 026	84-07-20	1330	10.60	--	4030	9.0	6700	--
582244134352403	CD04006630BBBC2 026	84-07-20	1045	11.40	--	4030	27	--	174
582324134352501	CD04006619BCBA1 050	84-02-14	0915	--	--	--	--	--	5520
582359134352102	CD04006618CBCA2 019	84-01-10	1552	--	180	--	160	205	--
		84-05-17	1100	8.70	180	2/4040	300	232	--
582359134352103	CD04006618CBCA3 019	84-05-17	1040	10.70	40.00	4030	.90	--	168

STATION NUMBER	DATE OF SAMPLE	PH (STANDARD UNITS) (00400)	TEMPERATURE, AIR (DEG C) (00020)	TEMPERATURE (DEG C) (00010)	HARDNESS (MG/L AS CACO3) (00900)	HARDNESS, NONCARBONATE (MG/L CACO3) (00902)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	BICARBONATE IT-FLD (MG/L AS HCO3) (99440)
582156134343101	84-08-13	6.5	--	8.0	--	--	--	--	4.9	--	--
582244134352401	84-07-20	7.0	12.0	6.0	540	--	51	100	1100	48	--
582244134352403	84-07-20	6.4	12.5	7.5	--	--	--	2.8	6.7	3.4	--
582324134352501	84-02-14	--	--	--	830	--	120	130	840	29	--
582359134352102	84-01-10	7.2	--	5.0	49	0	16	2.1	29	6.0	79
	84-05-17	7.0	16.0	5.0	48	0	16	1.9	34	4.9	100
582359134352103	84-05-17	6.5	16.0	11.5	73	0	25	2.5	2.8	2.6	100

STATION NUMBER	DATE OF SAMPLE	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	BROMIDE DISSOLVED (MG/L AS BR) (71870)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	IRON, DISSOLVED (UG/L AS FE) (01046)	TRITIUM TOTAL (PCI/L) (07000)	C-13/ C-12 STABLE ISOTOPE RATIO PER MIL (82081)	H-2/ H-1/ STABLE ISOTOPE RATIO PER MILL (82082)	O-18/ O-16 STABLE ISOTOPE RATIO PER MIL (82085)	TANNIN AND LIGNIN (MG/L) (32240)
582156134343101	84-08-13	--	4.6	--	66	3800	--	--	--	--	<1.0
582244134352401	84-07-20	5.6	1700	7.1	3440	3400	--	649	-96.5	-12.9	--
582244134352403	84-07-20	10	12	<.01	--	25	--	--	-98.5	-12.9	--
582324134352501	84-02-14	4.6	1500	5.6	3070	--	<200	--	-97.5	-13.0	--
582359134352102	84-01-10	6.9	17	.02	155	--	--	--	--	--	--
	84-05-17	6.8	19	--	169	--	--	--	-110.0	-14.8	--
582359134352103	84-05-17	6.0	1.2	1.9	98	--	--	--	-101.0	-13.3	--

1/ SUCTION PUMP
2/ SUBMERSIBLE PUMP

QUALITY OF GROUND WATER

WATER QUALITY DATA COLLECTED FROM WELLS DURING WATER YEAR 1984

SOUTH-CENTRAL ALASKA

EXIT GLACIER RANGER STATION WELL

STATION NUMBER	LOCAL IDENT-I-FIER	DATE OF SAMPLE	TIME	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET) (72019)	DEPTH TO BOT-TOM OF WATER-BEARING ZONE (FT) (72003)	DEPTH TO TOP OF WATER-BEARING ZONE (FT) (72002)	DEPTH OF WELL, TOTAL (FEET) (72008)	DEPTH TO BOT-TOM OF SAMPLE INTER-VAL (FT) (72016)	DEPTH TO TOP OF SAMPLE INTER-VAL (FT) (72015)
601119149372101	SB00100209DACD1 001	83-11-18	1930	41.00	59	41	59.40	58	48

STATION NUMBER	DATE OF SAMPLE	PUMP OR FLOW PERIOD PRIOR TO SAM-PLING (MIN) (72004)	DEPTH OF HOLE, TOTAL (FEET) (72001)	SAMPLE SOURCE (72005)	FLOW RATE, INSTAN-TANEOUS (GPM) (00059)	SPE-CIFIC CON-DUCT-ANCE (UMHOS) (00095)	PH (STAND-ARD UNITS) (00400)	TEMPER-ATURE (DEG C) (00010)	HARD-NESS (MG/L AS CACO3) (00900)	HARD-NESS, NONCAR-BONATE (MG/L CACO3) (00902)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)
601119149372101	83-11-18	30	59	1/1	20	245	7.9	5.0	120	22	43

STATION NUMBER	DATE OF SAMPLE	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	ALKA-LINITY FIELD (MG/L AS CACO3) (00410)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)
601119149372101	83-11-18	3.1	2.1	.90	98	14	.50	<.10	4.3	130	.14

STATION NUMBER	DATE OF SAMPLE	PHOS-PHORUS, ORTHO, DIS-SOLVED (MG/L AS P) (00671)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)
601119149372101	83-11-18	<.010	1800	130

MUNICIPALITY OF ANCHORAGE SANITARY LANDFILL WELLS

STATION NUMBER	LOCAL IDENT-I-FIER	DATE OF SAMPLE	TIME	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET) (72019)	DEPTH TO TOP OF WATER-BEARING ZONE (FT) (72002)	DEPTH OF WELL, TOTAL (FEET) (72008)	DEPTH TO BOT-TOM OF SAMPLE INTER-VAL (FT) (72016)	DEPTH TO TOP OF SAMPLE INTER-VAL (FT) (72015)	PUMP OR FLOW PERIOD PRIOR TO SAM-PLING (MIN) (72004)
610936149544601	SB01200401BCDD1 010	84-05-02	1406	1.97	--	8.40	8.4	6.4	13
610936149544602	SB01200401BCDD2 010	84-03-14	1645	5.73	--	19.00	19	17	30
		84-05-02	1425	2.60	--	19.00	19	17	13
		84-05-09	1545	2.54	--	19.00	19	17	58
		84-08-09	1540	5.58	--	19.00	19	17	23
610937149550601	SB01200401BCCC1 011	84-05-02	1500	1.97	--	8.20	8.0	6.0	12
610937149550602	SB01200401BCCC2 011	84-03-08	1050	5.33	--	15.50	16	14	14
		84-05-02	1517	3.08	--	15.50	16	14	11
610940149552801	SB01200402ADCA1 034	84-03-13	1257	6.24	--	18.00	18	16	16
		84-05-02	1547	3.65	--	18.00	18	16	12
610946149550701	SB01200401BCBB1 009	84-05-02	1210	1.77	--	7.70	7.5	5.5	26
610946149550702	SB01200401BCBB2 009	84-03-14	1456	5.37	--	18.00	18	16	21
		84-05-02	1238	2.02	--	18.00	18	16	--
610947149552701	SB01200402ADBA1 030	84-03-13	1220	5.97	--	18.00	18	16	30
		84-05-02	1630	3.13	--	18.00	18	16	19
610947149555401	SB01200402ACBA1 031	84-03-08	1130	6.58	--	17.00	17	12	15
		84-05-03	1410	3.78	--	17.00	17	12	20
		84-06-28	1400	4.66	--	17.00	17	12	40
		84-08-09	1348	5.39	--	17.00	17	12	18
610950149544601	SB01200401BBDD1 012	84-03-14	1553	4.40	--	19.00	19	17	15
		84-05-02	1326	1.63	--	19.00	19	17	15

1/ WELLHEAD

QUALITY OF GROUND WATER

WATER QUALITY DATA COLLECTED FROM WELLS DURING WATER YEAR 1984

SOUTH-CENTRAL ALASKA--Continued

MUNICIPALITY OF ANCHORAGE SANITARY LANDFILL WELLS--Continued

STATION NUMBER	LOCAL IDENT- I- FIER	DATE OF SAMPLE	TIME	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET) (72019)	DEPTH TO TOP OF WATER-BEARING ZONE (FT) (72002)	DEPTH OF WELL, TOTAL (FEET) (72008)	DEPTH TO BOTTOM OF SAMPLE INTER-VAL (FT) (72016)	DEPTH TO TOP OF SAMPLE INTER-VAL (FT) (72015)	PUMP OR FLOW PERIOD PRIOR TO SAMPLING (MIN) (72004)
610952149554801	SB01200402ABDB1 032	84-05-03	1436	3.45	--	9.20	9.0	7.0	10
610952149554802	SB01200402ABDB2 032	84-03-08	1300	5.87	--	18.00	18	16	16
		84-05-03	1500	3.47	--	18.00	18	16	13
		84-08-09	1421	4.76	--	18.00	18	16	15
610953149560001	SB01200402ABCB1 033	84-03-08	1210	6.08	--	18.50	19	17	15
		84-05-03	1535	3.95	--	18.50	19	17	13
		84-08-09	1600	5.02	--	18.50	19	17	10
610959149550702	SB01200401BBBB2 008	84-03-13	1524	5.08	--	18.00	18	16	15
		84-05-01	1443	1.94	--	18.00	18	16	18
		84-05-09	1345	1.90	--	18.00	18	16	52
		84-07-19	1405	2.86	--	18.00	18	16	14
611000149551902	SB01200402AAAB3 035	84-05-15	1731	--	--	33.20	33	28	44
		84-05-16	1900	2.28	--	33.20	33	28	65
		84-07-19	1303	3.13	--	33.20	33	28	17
611003149545401	SB01300436CDCD1 053	84-03-13	1417	4.93	--	17.00	17	15	13
		84-05-01	1229	1.87	--	17.00	17	15	12
611003149550101	SB01300436CDCC1 054	84-03-13	1446	5.49	--	11.70	12	9.5	13
		84-05-01	1521	2.34	--	11.70	12	9.5	15
		84-07-19	1440	3.25	--	11.70	12	9.5	15
611003149551502	SB01300436CCDC2 055	84-03-08	1410	6.03	--	19.10	19	17	16
		84-05-01	1552	2.92	--	19.10	19	17	17
		84-07-19	1333	3.66	--	19.10	19	17	14
611004149553502	SB01300435DDDD2 031	84-03-07	1424	5.50	--	22.00	22	20	E40
		84-04-30	1600	5.02	--	22.00	22	20	24
611005149553302	SB01300435DDDA6 034	84-05-15	1250	--	--	21.50	21	15	32
		84-05-15	1507	--	--	21.50	21	15	55
		84-07-19	1142	3.65	--	21.50	21	15	21
611005149553602	SB01300435DDDA4 034	84-05-14	1740	--	--	24.00	24	19	31
		84-05-15	1614	--	--	24.00	24	19	49
		84-05-16	1700	2.58	--	24.00	24	19	135
611006149552601	SB01300435DDDA1 035	84-03-07	1553	6.33	--	11.20	11	9.0	71
		84-05-02	1111	4.38	--	11.20	11	9.0	18
		84-05-08	1545	4.27	--	11.20	11	9.0	75
		84-07-19	1104	4.58	--	11.20	11	9.0	18
611009149555501	SB01300435DDBC1 032	84-03-07	1330	3.76	--	12.00	12	10	--
		84-04-30	1647	2.56	--	12.00	12	10	25
611012149545302	SB01300436CDBA2 052	84-03-07	1150	6.30	--	19.50	20	18	--
		84-05-01	1151	3.93	--	19.50	20	18	13
611013149550801	SB01300436CCAA1036 02135	84-05-07	1620	--	24	46.00	46	38	60
611013149551101	SB01300436CCAA2036 02365	84-05-08	1715	--	--	145	--	145	319
611017149555201	SB01300435DACC1020 02137	84-05-07	1315	8.16	--	23.00	23	15	85
611019149554302	SB01300435DADB2 035	84-07-18	1523	5.91	--	24.00	24	22	28
611022149554201	SB01300435DAAC1 030	84-04-30	1333	3.54	--	8.50	8.5	6.5	35
		84-07-18	1604	3.27	--	8.50	8.5	6.5	21
611022149554202	SB01300435DAAC2 030	84-03-07	1056	7.05	--	19.20	19	17	--
		84-04-30	1631	4.61	--	19.20	19	17	48
		84-07-18	1628	3.27	--	19.20	19	17	19
611025149561601	SB01300435DBBA1 033	84-04-30	1216	15.81	--	17.00	17	15	18

QUALITY OF GROUND WATER

WATER QUALITY DATA COLLECTED FROM WELLS DURING WATER YEAR 1984

SOUTH-CENTRAL ALASKA--Continued

MUNICIPALITY OF ANCHORAGE SANITARY LANDFILL WELLS--Continued

STATION NUMBER	DATE OF SAMPLE	DEPTH OF HOLE, TOTAL (FEET) (72001)	SAMPLE SOURCE (72005)	FLOW RATE, INSTANTANEOUS (GPM) (00059)	SPECIFIC CONDUCTANCE (UMHOS) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE (DEG C) (00010)
610936149544601	84-05-02	20	1/26	.20	135	--	3.5
610936149544602	84-03-14	20	26	.10	275	--	3.5
	84-05-02	20	26	.30	290	--	4.0
	84-05-09	20	26	--	290	6.4	5.0
	84-08-09	20	26	.20	262	--	4.0
610937149550601	84-05-02	18	26	.10	60	--	5.0
610937149550602	84-03-08	18	26	.20	362	--	3.5
	84-05-02	18	26	.30	370	--	4.0
610940149552801	84-03-13	20	26	.20	448	--	2.0
	84-05-02	20	26	.30	450	--	3.0
610946149550701	84-05-02	18	26	.10	98	--	3.0
610946149550702	84-03-14	18	26	.20	480	--	3.5
	84-05-02	18	26	--	488	--	3.5
610947149552701	84-03-13	18	26	.10	495	--	2.0
	84-05-02	18	26	.20	510	--	4.0
610947149555401	84-03-08	18	26	.20	405	--	2.5
	84-05-03	18	26	.20	445	--	3.0
	84-06-28	18	26	.30	--	7.0	4.0
	84-08-09	18	26	.20	440	--	4.0
610950149544601	84-03-14	20	26	.20	455	--	2.5
	84-05-02	20	26	.20	500	--	3.0
610952149554801	84-05-03	18	26	.30	255	--	2.0
610952149554802	84-03-08	18	26	.20	470	--	2.0
	84-05-03	18	26	.30	462	--	2.5
	84-08-09	18	26	.20	450	--	3.0
610953149560001	84-03-08	19	26	.20	330	--	2.5
	84-05-03	19	26	.30	338	--	3.0
	84-08-09	19	26	.30	325	--	4.0
610959149550702	84-03-13	20	26	.20	675	--	2.0
	84-05-01	20	26	.20	738	--	3.0
	84-05-09	20	26	--	625	7.2	3.5
	84-07-19	20	26	.20	660	--	4.0
611000149551902	84-05-15	35	26	.20	838	--	3.5
	84-05-16	35	26	1.0	860	7.8	3.0
	84-07-19	35	26	.20	862	--	3.5
611003149545401	84-03-13	18	26	.20	390	--	2.0
	84-05-01	18	26	.30	425	--	3.0
611003149550101	84-03-13	20	26	.20	845	--	2.0
	84-05-01	20	26	.20	825	--	3.0
	84-07-19	20	26	.20	850	--	4.0
611003149551502	84-03-08	20	26	.20	1500	--	2.5
	84-05-01	20	26	.20	1500	--	3.0
	84-07-19	20	26	.20	1550	--	3.5
611004149553502	84-03-07	25	26	E.10	375	--	2.0
	84-04-30	25	26	.20	450	--	2.0
611005149553302	84-05-15	26	26	.20	2700	--	4.0
	84-05-15	26	26	.10	3250	--	4.0
	84-07-19	26	26	.20	3600	--	4.0
611005149553602	84-05-14	25	26	.10	2250	--	3.0
	84-05-15	25	26	.20	2120	--	3.0
	84-05-16	25	26	.50	3100	6.8	2.5
611006149552601	84-03-07	15	26	<.10	3100	--	2.0
	84-05-02	15	26	.20	>4000	--	3.0
	84-05-08	15	26	--	3340	--	4.0
	84-07-19	15	26	.20	3250	--	5.0
611009149555501	84-03-07	18	26	--	266	--	2.0
	84-04-30	18	26	.10	300	--	4.0
611012149545302	84-03-07	20	26	--	745	--	3.0
	84-05-01	20	26	.30	1000	--	3.0
611013149550801	84-05-07	46	26	2.0	2350	6.8	3.5

1/ PUMP
E ESTIMATED

QUALITY OF GROUND WATER

WATER QUALITY DATA COLLECTED FROM WELLS DURING WATER YEAR 1984

SOUTH-CENTRAL ALASKA--Continued

MUNICIPALITY OF ANCHORAGE SANITARY LANDFILL WELLS--Continued

STATION NUMBER	DATE OF SAMPLE	DEPTH OF HOLE, TOTAL (FEET) (72001)	SAMPLE SOURCE (72005)	FLOW RATE, INSTANTANEOUS (GPM) (00059)	SPECIFIC CONDUCTANCE (UMHOS) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE (DEG C) (00010)
611013149551101	84-05-08	145	1/26	2.5	240	8.8	3.0
611017149555201	84-05-07	23	--	2.0	72	6.5	3.0
611019149554302	84-07-18	25	26	.20	700	--	3.0
611022149554201	84-04-30	20	26	.20	700	--	2.0
	84-07-18	20	26	.20	605	--	5.5
611022149554202	84-03-07	20	26	--	595	--	2.0
	84-04-30	20	26	.10	800	--	2.5
	84-07-18	20	26	.50	755	--	3.5
611025149561601	84-04-30	20	26	<.10	100	--	4.0

STATION NUMBER	LOCAL IDENTIFIER	DATE OF SAMPLE	TIME	HARDNESS (MG/L AS CACO3) (00900)	HARDNESS, NONCARBONATE (MG/L CACO3) (00902)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)
610936149544602	SB01200401BCDD2 010	84-05-09	1545	110	--	28	10	4.1	.50
610947149555401	SB01200402ACBA1 031	84-06-28	1400	220	6	60	18	4.0	1.2
610959149550702	SB01200401BBBB2 008	84-05-09	1345	310	--	99	16	15	1.3
611006149552601	SB01300435DDDA1 035	84-05-08	1545	1400	0	380	98	150	4.5
611013149550801	SB01300436CCAA1036 02135	84-05-07	1620	1000	0	320	54	93	23
611013149551101	SB01300436CCAA2036 02365	84-05-08	1715	120	0	20	17	8.8	2.7
611017149555201	SB01300435DACC1020 02137	84-05-07	1315	31	18	10	1.5	2.1	.60

STATION NUMBER	DATE OF SAMPLE	ALKALINITY, CARBONATE IT-FLD (MG/L - CACO3) (99430)	BICARBONATE IT-FLD (MG/L AS HCO3) (99440)	CARBONATE IT-FLD (MG/L AS CO3) (99445)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	NITROGEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)
610936149544602	84-05-09	--	--	--	14	3.5	<.10	41	--	<.10	<.10
610947149555401	84-06-28	--	--	--	11	8.2	<.10	29	280	<.10	<.10
610959149550702	84-05-09	--	--	--	4.4	41	<.10	42	--	<.10	<.10
611006149552601	84-05-08	--	--	--	2.7	290	<.10	22	2300	<.10	<.10
611013149550801	84-05-07	1440	1760	.000	1.9	110	.10	13	1600	.20	<.10
611013149551101	84-05-08	130	--	--	4.9	1.7	.20	13	150	<.10	<.10
611017149555201	84-05-07	13	16	.000	14	3.4	.10	15	55	.20	.14

STATION NUMBER	DATE OF SAMPLE	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN, TOTAL (MG/L AS N) (00600)	PHOSPHORUS, TOTAL (MG/L AS P) (00665)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P) (00671)	IRON, DISSOLVED (UG/L AS FE) (01046)	MANGANESE. DISSOLVED (UG/L AS MN) (01056)
610936149544602	84-05-09	1.6	--	.030	.010	27	800
610947149555401	84-06-28	.40	--	.100	.010	15000	1100
610959149550702	84-05-09	1.5	--	.070	.010	20	1200
611006149552601	84-05-08	.60	--	.300	.010	85000	5200
611013149550801	84-05-07	32	32	.300	.020	120000	4700
611013149551101	84-05-08	1.5	--	.880	.050	190	76
611017149555201	84-05-07	<.20	--	.030	.010	220	16

1/ PUMP

WATER QUALITY DATA COLLECTED FROM WELLS DURING WATER YEAR 1984

SOUTH-CENTRAL ALASKA--Continued

MUNICIPALITY OF ANCHORAGE SANITARY LANDFILL WELLS--Continued

STATION NUMBER	LOCAL IDENT-I-FIER	DATE OF SAMPLE	TIME	ALKA-LINITY FIELD (MG/L AS CACO3) (00410)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	DI-CHLORO-BROMO-METHANE TOTAL (UG/L) (32101)	CARBON-TETRA-CHLO-RIDE TOTAL (UG/L) (32102)	1,2-DI-CHLORO-ETHANE TOTAL (UG/L) (32103)	BROM-OFORM TOTAL (UG/L) (32104)
611000149551902	SB01200402AAAB3 035	84-05-16	1900	482	49	<3.0	<3.0	<3.0	<3.0
611005149553602	SB01300435DDDA4 034	84-05-16	1700	1690	360	--	--	--	--
611006149552601	SB01300435DDDA1 035	84-05-08	1545	2030	290	<3.0	<3.0	<3.0	<3.0
611013149550801	SB01300436CCAA1036 Q2135	84-05-07	1620	1450	110	<3.0	<3.0	<3.0	<3.0
611017149555201	SB01300435DACC1020 02137	84-05-07	1315	16	3.4	<3.0	<3.0	<3.0	<3.0

STATION NUMBER	DATE OF SAMPLE	CHLORO-DI-BROMO-METHANE TOTAL (UG/L) (32105)	CHLORO-OFORM TOTAL (UG/L) (32106)	TOLUENE TOTAL (UG/L) (34010)	BENZENE TOTAL (UG/L) (34030)	ACE-NAPHTH-YLENE TOTAL (UG/L) (34200)	ACE-NAPHTH-ENE TOTAL (UG/L) (34205)	ANTHRA-CENE TOTAL (UG/L) (34220)	BENZO B FLUOR-AN-THENE TOTAL (UG/L) (34230)	BENZO K FLUOR-AN-THENE TOTAL (UG/L) (34242)	BENZO-A-PYRENE TOTAL (UG/L) (34247)
611000149551902	84-05-16	<3.0	<3.0	<3.0	<3.0	--	--	--	--	--	--
611005149553602	84-05-16	--	--	--	--	--	--	--	--	--	--
611006149552601	84-05-08	<3.0	<3.0	<3.0	<3.0	--	--	--	--	--	--
611013149550801	84-05-07	<3.0	<3.0	260	16	<5.0	<5.0	<5.0	<10.0	<10.0	<10.0
611017149555201	84-05-07	<3.0	<3.0	<3.0	<3.0	<5.0	<5.0	<5.0	<10.0	<10.0	<10.0

STATION NUMBER	DATE OF SAMPLE	BIS 2-CHLORO-ETHYL ETHER TOTAL (UG/L) (34273)	BIS (2-CHLORO-ETHOXY) METHANE TOTAL (UG/L) (34278)	BIS (2-CHLORO-ISO-PROPYL) ETHER TOTAL (UG/L) (34283)	N-BUTYL BENZYL PHTHAL-ATE TOTAL (UG/L) (34292)	CHLORO-BENZENE TOTAL (UG/L) (34301)	CHLORO-ETHANE TOTAL (UG/L) (34311)	CHRY-SENE TOTAL (UG/L) (34320)	DIETHYL PHTHAL-ATE TOTAL (UG/L) (34336)	DI-METHYL PHTHAL-ATE TOTAL (UG/L) (34341)	ETHYL-BENZENE TOTAL (UG/L) (34371)
611000149551902	84-05-16	--	--	--	--	<3.0	<3.0	--	--	--	<3.0
611005149553602	84-05-16	--	--	--	--	--	--	--	--	--	--
611006149552601	84-05-08	--	--	--	--	<3.0	<3.0	--	--	--	<3.0
611013149550801	84-05-07	<5.0	<5.0	<5.0	<5.0	<3.0	<3.0	<10.0	<5.0	<5.0	13
611017149555201	84-05-07	<5.0	<5.0	<5.0	<5.0	<3.0	<3.0	<10.0	<5.0	<5.0	<3.0

STATION NUMBER	DATE OF SAMPLE	FLUOR-ANTHENE TOTAL (UG/L) (34376)	FLUOR-ENE TOTAL (UG/L) (34381)	HEXA-CHLORO-CYCLO-PENT-ADIENE TOTAL (UG/L) (34386)	HEXA-CHLORO-ETHANE TOTAL (UG/L) (34396)	INDENO (1,2,3-CD) PYRENE TOTAL (UG/L) (34403)	ISO-PHORONE TOTAL (UG/L) (34408)	METHYL-BROMIDE TOTAL (UG/L) (34413)	METHYL-ENE CHLO-RIDE TOTAL (UG/L) (34423)	N-NITRO-SODI-N-PROPYL-AMINE TOTAL (UG/L) (34428)	N-NITRO-SODI-PHENY-LAMINE TOTAL (UG/L) (34433)
611000149551902	84-05-16	--	--	--	--	--	--	<3.0	<3.0	--	--
611005149553602	84-05-16	--	--	--	--	--	--	--	--	--	--
611006149552601	84-05-08	--	--	--	--	--	--	<3.0	<3.0	--	--
611013149550801	84-05-07	<5.0	<5.0	<5.0	<5.0	<10.0	<5.0	<3.0	4.0	<5.0	<5.0
611017149555201	84-05-07	<5.0	<5.0	<5.0	<5.0	<10.0	<5.0	<3.0	<3.0	<5.0	<5.0

STATION NUMBER	DATE OF SAMPLE	N-NITRO-SODI-METHY-LAMINE TOTAL (UG/L) (34438)	NITRO-BENZENE TOTAL (UG/L) (34447)	PARA-CHLORO-META CRESOL TOTAL (UG/L) (34452)	PHENAN-THRENE TOTAL (UG/L) (34461)	PYRENE TOTAL (UG/L) (34469)	TETRA-CHLORO-ETHYL-ENE TOTAL (UG/L) (34475)	TRI-CHLORO-FLOURO-METHANE TOTAL (UG/L) (34488)	1,1-DI-CHLORO-ETHANE TOTAL (UG/L) (34496)	1,1-DI-CHLORO-ETHYL-ENE TOTAL (UG/L) (34501)	1,1,1-TRI-CHLORO-ETHANE TOTAL (UG/L) (34506)
611000149551902	84-05-16	--	--	--	--	--	<3.0	<3.0	<3.0	<3.0	<3.0
611005149553602	84-05-16	--	--	--	--	--	--	--	--	--	--
611006149552601	84-05-08	--	--	--	--	--	<3.0	<3.0	<3.0	<3.0	<3.0
611013149550801	84-05-07	<5.0	<5.0	<30.0	<5.0	<5.0	<3.0	<3.0	<3.0	<3.0	<3.0
611017149555201	84-05-07	<5.0	<5.0	<30.0	<5.0	<5.0	<3.0	<3.0	<3.0	<3.0	<3.0

QUALITY OF GROUND WATER

WATER QUALITY DATA COLLECTED FROM WELLS DURING WATER YEAR 1984

SOUTH-CENTRAL ALASKA--Continued

MUNICIPALITY OF ANCHORAGE SANITARY LANDFILL WELLS--Continued

STATION NUMBER	DATE OF SAMPLE	1,1,2-TRI-CHLORO-ETHANE TOTAL (UG/L) (34511)	1,1,2,2 TETRA-CHLORO-ETHANE TOTAL (UG/L) (34516)	BENZOGHI PERYLENE1,12 -BENZOPERYLENE TOTAL (UG/L) (34521)	BENZO A ANTHRACENE1,2-BENZANTHRACENE TOTAL (UG/L) (34526)	1,2-DI-CHLORO-BENZENE TOTAL (UG/L) (34536)	1,2-DI-CHLORO-PROPANE TOTAL (UG/L) (34541)	1,2-TRANSDI CHLORO-ETHYL-ENE TOTAL (UG/L) (34546)	1,2,4-TRI-CHLORO-BENZENE TOTAL (UG/L) (34551)	1,2,5,6 -DIBENZ -ANTHRA -CENE TOTAL (UG/L) (34556)	1,3-DI-CHLORO-PROPENE TOTAL (UG/L) (34561)
611000149551902	84-05-16	<3.0	<3.0	--	--	--	<3.0	<3.0	--	--	<3.0
611005149553602	84-05-16	--	--	--	--	--	--	--	--	--	--
611006149552601	84-05-08	<3.0	<3.0	--	--	--	<3.0	<3.0	--	--	<3.0
611013149550801	84-05-07	<3.0	<3.0	<10.0	<5.0	<5.0	<3.0	320	<5.0	<10.0	<3.0
611017149555201	84-05-07	<3.0	<3.0	<10.0	<5.0	<5.0	<3.0	<3.0	<5.0	<10.0	<3.0

STATION NUMBER	DATE OF SAMPLE	1,3-DI-CHLORO-BENZENE TOTAL (UG/L) (34566)	1,4-DI-CHLORO-BENZENE TOTAL (UG/L) (34571)	2-CHLORO-ETHYL-VINYL-ETHER TOTAL (UG/L) (34576)	2-CHLORO-NAPH-THALENE TOTAL (UG/L) (34581)	2-CHLORO-PHENOL TOTAL (UG/L) (34586)	2-NITRO-PHENOL TOTAL (UG/L) (34591)	DI-N-OCTYL PHTHAL-ATE TOTAL (UG/L) (34596)	2,4-DI-CHLORO-PHENOL TOTAL (UG/L) (34601)	2,4-DI-METHYL-PHENOL TOTAL (UG/L) (34606)	2,4-DI-NITRO-TOLUENE TOTAL (UG/L) (34611)
611000149551902	84-05-16	--	--	<3.0	--	--	--	--	--	--	--
611005149553602	84-05-16	--	--	--	--	--	--	--	--	--	--
611006149552601	84-05-08	--	--	<3.0	--	--	--	--	--	--	--
611013149550801	84-05-07	<5.0	<5.0	<3.0	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0
611017149555201	84-05-07	<5.0	<5.0	<3.0	<5.0	<5.0	<5.0	<10.0	<5.0	<5.0	<5.0

STATION NUMBER	DATE OF SAMPLE	2,4,-DI-NITRO-PHENOL TOTAL (UG/L) (34616)	2,4,6-TRI-CHLORO-PHENOL TOTAL (UG/L) (34621)	2,6-DI-NITRO-TOLUENE TOTAL (UG/L) (34626)	4-BROMO-PHENYL PHENYL ETHER TOTAL (UG/L) (34636)	4-CHLORO-PHENYL PHENYL ETHER TOTAL (UG/L) (34641)	4-NITRO-PHENOL TOTAL (UG/L) (34646)	4,6-DINITRO -ORTHO-CRESOL TOTAL (UG/L) (34657)	DI-CHLORO-DI-FLUORO-METHANE TOTAL (UG/L) (34668)	PHENOL (C6H-5OH) TOTAL (UG/L) (34694)	NAPHTH-ALENE TOTAL (UG/L) (34696)
611000149551902	84-05-16	--	--	--	--	--	--	--	<3.0	--	--
611005149553602	84-05-16	--	--	--	--	--	--	--	--	--	--
611006149552601	84-05-08	--	--	--	--	--	--	--	<3.0	--	--
611013149550801	84-05-07	<20.0	<20.0	<5.0	<5.0	<5.0	<30.0	<30.0	<3.0	<5.0	<5.0
611017149555201	84-05-07	<20.0	<20.0	<5.0	<5.0	<5.0	<30.0	<30.0	<3.0	<5.0	<5.0

STATION NUMBER	DATE OF SAMPLE	PENTA-CHLORO-PHENOL TOTAL (UG/L) (39032)	BIS(2-ETHYL HEXYL) PHTHAL-ATE TOTAL (UG/L) (39100)	DI-N-BUTYL PHTHAL-ATE TOTAL (UG/L) (39110)	VINYL CHLO-RIDE TOTAL (UG/L) (39175)	TRI-CHLORO-ETHYL-ENE TOTAL (UG/L) (39180)	HEXA-CHLORO-BENZENE TOTAL (UG/L) (39700)	HEXA-CHLORO-BUT-ADIENE TOTAL (UG/L) (39702)
611000149551902	84-05-16	--	--	--	<3.0	<3.0	--	--
611005149553602	84-05-16	--	--	--	--	--	--	--
611006149552601	84-05-08	--	--	--	<3.0	<3.0	--	--
611013149550801	84-05-07	<30.0	<5.0	<5.0	<3.0	<3.0	<5.0	<5.0
611017149555201	84-05-07	<30.0	<5.0	<5.0	<3.0	<3.0	<5.0	<5.0

POINT MCKENZIE AREA WELLS

STATION NUMBER	LOCAL IDENT-I-FIER	DATE OF SAMPLE	TIME	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET) (72019)	DEPTH OF WELL, TOTAL (FEET) (72008)	DEPTH TO BOT-TOM OF SAMPLE INTER-VAL (FT) (72016)	DEPTH TO OF SAMPLE INTER-VAL (FT) (72015)	PUMP TOP PERIOD PRIOR TO SAM-PLING (MIN) (72004)	OR FLOW DEPTH OF HOLE, TOTAL (FEET) (72001)
612008150034201	SB01400406BDAD1 001	84-09-13	1300	--	150	150	145	20	150
612319150014601	SB01500417DBCB1 001	84-09-14	1215	95.00	320	320	320	55	320
612512150045901	SB01500501DADB1001	84-09-13	1110	--	60.00	60	60	36	60

WATER QUALITY DATA COLLECTED FROM WELLS DURING WATER YEAR 1984

SOUTH-CENTRAL ALASKA--Continued

POINT MCKENZIE AREA WELLS--Continued

STATION NUMBER	DATE OF SAMPLE	FLOW RATE, INSTANTANEOUS (GPM) (00059)	SPECIFIC CONDUCTANCE (UMHOS) (00095)	PH (STANDARD UNITS) (00400)	TEMPERATURE (DEG C) (00010)	HARDNESS (MG/L AS CACO3) (00900)	HARDNESS, NONCARBONATE (MG/L CACO3) (00902)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)
12008150034201	84-09-13	>10	233	7.3	4.0	120	2	42	4.5	3.8	1.3
12319150014601	84-09-14	15	850	8.2	4.5	150	16	29	19	130	6.3
12512150045901	84-09-13	6.7	202	7.8	5.0	110	9	40	2.8	2.4	1.0

STATION NUMBER	DATE OF SAMPLE	ALKALINITY LAB (MG/L AS CACO3) (90410)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	PHOSPHORUS, ORTHO, DISSOLVED (MG/L AS P) (00671)
612008150034201	84-09-13	122	6.2	2.0	<.10	9.8	140	.12	.010
612319150014601	84-09-14	135	72	160	.20	15	510	<.10	.080
612512150045901	84-09-13	103	5.7	1.1	<.10	11	130	.28	.010

STATION NUMBER	DATE OF SAMPLE	BORON, DISSOLVED (UG/L AS B) (01020)	IRON, DISSOLVED (UG/L AS FE) (01046)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)
612008150034201	84-09-13	20	40	<10
612319150014601	84-09-14	110	460	190
612512150045901	84-09-13	10	8	2

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QUALITY OF GROUND WATER

WATER QUALITY DATA COLLECTED FROM WELLS DURING WATER YEAR 1984

SOUTHWEST ALASKA

SHEMYA ISLAND WELLS

STATION NUMBER	LOCAL IDENT- I- FIER		DATE OF SAMPLE	TIME	SAMPLE TREAT- MENT (00115)	SPE- CIFIC CON- DUCT- ANCE (UMHOS) (00095)	PH (STAND- ARD UNITS) (00400)	TEMPER- ATURE (DEG C) (00010)	HARD- NESS (MG/L AS CACO3) (00900)	HARD- NESS, NONCAR- BONATE (MG/L CACO3) (00902)
524310174070871	SC086257	2	84-08-05	1545	1/2	415	6.7	5.0	130	22
524404174054271	SC086257		84-08-05	1045	--	735	7.1	5.0	280	0

STATION NUMBER	DATE OF SAMPLE	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	ALKA- LINITY LAB (MG/L AS CACO3) (90410)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)
524310174070871	84-08-05	30	14	42	3.4	111	14	61	<.10	19	250
524404174054271	84-08-05	76	21	53	5.9	292	23	63	.10	15	430

STATION NUMBER	DATE OF SAMPLE	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	PHOS- PHORUS, ORTHO, DIS- SOLVED (MG/L AS P) (00671)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	DI- CHLORO- BROMO- METHANE TOTAL (UG/L) (32101)	CARBON- TETRA- CHLO- RIDE TOTAL (UG/L) (32102)	1,2-DI- CHLORO- ETHANE TOTAL (UG/L) (32103)	BROM- OFORM TOTAL (UG/L) (32104)	CHLORO- DI- BROMO- METHANE TOTAL (UG/L) (32105)	CHLORO- OFORM TOTAL (UG/L) (32106)
524310174070871	84-08-05	<.10	<.010	40	340	19	<3.0	<3.0	32	52	5.6
524404174054271	84-08-05	.24	.010	440	36	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0

STATION NUMBER	DATE OF SAMPLE	TOLUENE TOTAL (UG/L) (34010)	BENZENE TOTAL (UG/L) (34030)	CHLORO- BENZENE TOTAL (UG/L) (34301)	CHLORO- ETHANE TOTAL (UG/L) (34311)	ETHYL- BENZENE TOTAL (UG/L) (34371)	METHYL- BROMIDE TOTAL (UG/L) (34413)	METHYL- ENE CHLO- RIDE TOTAL (UG/L) (34423)	TETRA- CHLORO- ETHYL- ENE TOTAL (UG/L) (34475)	TRI- CHLORO- FLOURO- METHANE TOTAL (UG/L) (34488)	1,1-DI- CHLORO- ETHANE TOTAL (UG/L) (34496)
524310174070871	84-08-05	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
524404174054271	84-08-05	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0

STATION NUMBER	DATE OF SAMPLE	1,1-DI- CHLORO- ETHYL- ENE TOTAL (UG/L) (34501)	1,1,1- TRI- CHLORO- ETHANE TOTAL (UG/L) (34506)	1,1,2- TRI- CHLORO- ETHANE TOTAL (UG/L) (34511)	1,1,2,2 TETRA- CHLORO- ETHANE TOTAL (UG/L) (34516)	1,2-DI- CHLORO- PROPANE TOTAL (UG/L) (34541)	1,2- TRANSDI CHLORO- ETHYL- ENE TOTAL (UG/L) (34546)	1,3-DI- CHLORO- PROPENE TOTAL (UG/L) (34561)	2- CHLORO- ETHYL- VINYL- ETHER TOTAL (UG/L) (34576)
524310174070871	84-08-05	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0
524404174054271	84-08-05	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0

STATION NUMBER	DATE OF SAMPLE	DI- CHLORO- DI- FLUORO- METHANE TOTAL (UG/L) (34668)	VINYL CHLO- RIDE TOTAL (UG/L) (39175)	TRI- CHLORO- ETHYL- ENE TOTAL (UG/L) (39180)
524310174070871	84-08-05	<3.0	<3.0	<3.0
524404174054271	84-08-05	<3.0	<3.0	<3.0

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QUALITY OF GROUND WATER

WATER QUALITY DATA COLLECTED FROM WELLS DURING WATER YEAR 1984

YUKON ALASKA

FAIRBANKS AREA WELLS

TION NUMBER	LOCAL IDENT- I- FIER		DATE OF SAMPLE	TIME	DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET) (72019)	DEPTH OF WELL, TOTAL (FEET) (72008)	DEPTH TO BOT- TOM OF SAMPLE INTER- VAL (FT) (72016)	DEPTH TO TOP OF SAMPLE INTER- VAL (FT) (72015)	PUMP OR FLOW PERIOD PRIOR TO SAM- PLING (MIN) (72004)	DEPTH OF HOLE, TOTAL (FEET) (72001)
728147243001	FD00100231AAAA1001	52235	84-02-28	1200	6.14	13.50	14	11	5	14
822147283001	FD00100123DDDD1001	52238	84-02-28	1400	4.88	7 60	7.6	4.6	5	7.6
917147322401	FD00100115CCCC1001	51166	84-02-27	1300	8.04	19.00	--	--	5	19
133147582301	FC00100204BCDB1021	51284	84-03-16	1400	--	150	150	140	20	170
			84-07-05	1400	--	150	150	140	0	170
			84-07-05	1530	--	150	150	140	60	170
			84-07-05	1630	--	150	150	140	105	170
34147385101	FB00100113DDBC2001	50673	83-10-06	1500	39.28	100	99	89	20	100

TION NUMBER	DATE OF SAMPLE	SAMPLE SOURCE (72005)	SAM- PLING CONDI- TION (72006)	SAM- PLING METHOD, CODES (82398)	SPE- CIFIC CON- DUCT- ANCE (UMHOS) (00095)	PH (STAND- ARD UNITS) (00400)	TEMPER- ATURE, AIR (DEG C) (00020)	TEMPER- ATURE (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)
728147243001	84-02-28	1/26	3/1.00	--	375	7.0	-14.5	.0	757	2.6	18
22147283001	84-02-28	26	1.00	--	320	5.8	-14.0	.0	756	2.0	14
17147322401	84-02-27	26	1.00	--	320	6.7	-15.0	.5	758	.0	0
33147582301	84-03-16	2/30	4/8.00	5/4040	995	6.5	-9.0	3.5	--	--	--
	84-07-05	30	8.00	4040	1080	6.2	15.0	8.0	--	--	--
	84-07-05	30	8.00	4040	1080	6.2	15.0	8.0	--	--	--
	84-07-05	30	8.00	4040	1080	6.2	15.0	8.0	--	--	--
34147385101	83-10-06	26	8.00	4040	750	6.5	.5	3.5	752	3.4	26

ION NUMBER	DATE OF SAMPLE	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	HARD- NESS (MG/L AS CACO3) (00900)	HARD- NESS, NONCAR- BCNATE (MG/L CACO3) (00902)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	ALKA- LINITY FIELD (MG/L AS CACO3) (00410)	BICAR- BONATE IT-FLD (MG/L AS HCO3) (99440)	ALKA- LINITY, CARBON- ATE IT-FLD (MG/L - CACO3) (99430)
28147243001	84-02-28	<1	--	--	--	--	--	--	--	228	187
22147283001	84-02-28	<1	--	--	--	--	--	--	--	173	142
17147322401	84-02-27	<1	--	--	--	--	--	--	--	168	138
33147582301	84-03-16	--	630	27	170	49	15	4.1	600	--	--
	84-07-05	--	--	--	--	--	--	--	--	--	--
	84-07-05	--	--	--	--	--	--	--	--	--	--
	84-07-05	--	--	--	--	--	--	--	--	--	--
34147385101	83-10-06	--	--	--	--	--	--	--	--	150	--

ION NUMBER	DATE OF SAMPLE	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS N) (00618)	NITRO- GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO- GEN, AMMONIA TOTAL (MG/L AS N) (00610)	PHOS- PHORUS, DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS, ORTHO, TOTAL (MG/L AS P) (70507)
28147243001	84-02-28	8.0	1.9	--	--	--	--	<.10	.060	<.010	.120
22147283001	84-02-28	15	1.3	--	--	--	--	<.10	.090	.250	.120
17147322401	84-02-27	21	12	--	--	--	--	<.10	.150	.010	.060
3147582301	84-03-16	77	1.6	.20	15	690	--	1.6	--	--	--
	84-07-05	--	--	--	--	--	--	3.1	--	--	--
	84-07-05	--	--	--	--	--	--	3.6	--	--	--
	84-07-05	--	--	--	--	--	--	3.1	--	--	--
4147385101	83-10-06	--	--	--	--	--	.33	--	--	--	--

MP
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BMERSIBLE PUMP

PY AVAILABLE

QUALITY OF GROUND WATER

WATER QUALITY DATA COLLECTED FROM WELLS DURING WATER YEAR 1984

YUKON ALASKA--Continued

FAIRBANKS AREA WELLS--Continued

STATION NUMBER	DATE OF SAMPLE	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	ARSENIC TOTAL (UG/L AS AS) (01002)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)
644728147243001	84-02-28	8.7	3	1900	--	420	--
644822147283001	84-02-28	6.1	4	1700	--	690	--
644917147322401	84-02-27	5.1	15	9600	--	640	--
645133147582301	84-03-16	--	110	--	330	--	25
	84-07-05	--	4	240	--	--	--
	84-07-05	--	110	21000	--	--	--
	84-07-05	--	17	3800	--	--	--
645434147385101	83-10-06	17	--	--	--	--	--

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  near Stevens Village 221

October 1, 1978

FACTORS FOR CONVERTING INCH-POUND UNITS TO INTERNATIONAL SYSTEM UNITS (SI)

The following factors may be used to convert the inch-pound units published herein to the International System of Units (SI). This report contains both the inch-pound and SI unit equivalents in the station manuscript descriptions.

Multiply inch-pound units	By	To obtain SI units
	Length	
inches (in)	2.54×10^{1}	millimeters (mm)
	2.54×10^{-2}	meters (m)
feet (ft)	3.048×10^{-1}	meters (m)
miles (mi)	1.609×10^{0}	kilometers (km)
	Area	
acres	4.047×10^{3}	square meters (m^2)
	4.047×10^{-1}	square hectometers (hm^2)
	4.047×10^{-3}	square kilometers (km^2)
square miles (mi^2)	2.590×10^{0}	square kilometers (km^2)
	Volume	
gallons (gal)	3.785×10^{0}	liters (L)
	3.785×10^{0}	cubic decimeters (dm^3)
	3.785×10^{-3}	cubic meters (m^3)
million gallons	3.785×10^{3}	cubic meters (m^3)
	3.785×10^{-3}	cubic hectometers (hm^3)
cubic feet (ft^3)	2.832×10^{1}	cubic decimeters (dm^3)
	2.832×10^{-2}	cubic meters (m^3)
cfs-days	2.447×10^{3}	cubic meters (m^3)
	2.447×10^{-3}	cubic hectometers (hm^3)
acre-feet (acre-ft)	1.233×10^{3}	cubic meters (m^3)
	1.233×10^{-3}	cubic hectometers (hm^3)
	1.233×10^{-6}	cubic kilometers (km^3)
	Flow	
cubic feet per second (ft^3/s)	2.832×10^{1}	liters per second (L/s)
	2.832×10^{1}	cubic decimeters per second (dm^3/s)
	2.832×10^{-2}	cubic meters per second (m^3/s)
gallons per minute (gal/min)	6.309×10^{-2}	liters per second (L/s)
	6.309×10^{-2}	cubic decimeters per second (dm^3/s)
	6.309×10^{-5}	cubic meters per second (m^3/s)
million gallons per day	4.381×10^{1}	cubic decimeters per second (dm^3/s)
	4.381×10^{-2}	cubic meters per second (m^3/s)
	Mass	
tons (short)	9.072×10^{-1}	megagrams (Mg) or metric tons